Prof Michael Reece

BSc, PhD, PGCE, MIMMM, FECerS

School of Engineering and Materials Science
Queen Mary University of London
Mile End Road
London E1 4NS

tel: +44 (0)20 7882 8732
email: m.j.reece@qmul.ac.uk web: www.sems.qmul.ac.uk/m.j.reece

---

2025

High-temperature compressive behaviour and failure mechanism of high entropy carbides modified by Cr addition.
Wang Y, Cheng Z, Girman V, Sedlk R, Dusza J, Reece MJ and Zhang C. *Materials Science and Engineering A vol. 920,.Elsevier.*

2024

Ecofriendly and low-cost high-entropy sulfides with high thermal stability and ZT>1 via entropy engineering and anion compensation.
Li S, Zhang R, Chen K and Reece MJ. *Nano Energy vol. 131,.Elsevier.*

The effect of configurational entropy and refractory elements on the oxidation behaviour of high entropy carbides containing up to eight refractory elements.
Wang Y, Wang X, Zhang B, Zhang H and Reece MJ. *Ceramics International vol. 50, (23) 51589-51595.Elsevier.*

Enhanced thermoelectric performance of p-type BiSbTe through incorporation of magnetic CrSb.
Fortulan R, Li S, Reece MJ, Serhiienko I, Mori T and Yamini SA. *Applied Physics Letters vol. 125, (20).Aip Publishing.*

Porous Thermoelectric Materials for Energy Conversion by Thermoelectrocatalysis.
Wu J, Chen K, Reece MJ and Huang Z. *Energy Technology.Wiley.*

Processing and characterisation of hot rolling pressed PVDF films with enhanced field-induced polarisation.
Qi X, Huang X, Das B, Dong M, Restasari A, Whiteley R, Yan H, Bilotti E and Reece MJ. *Polymer vol. 302,.*

Temperature and composition insensitivity of thermoelectric properties of high-entropy half-heusler compounds.
Li S, Chen K, Wang Y, Saunders T, Zhang R, Bos JWG and Reece MJ. *Acta Materialia vol. 268,.*

Joining of C/C composite with high entropy alloy interlayers via spark plasma sintering and its mechanical strength at 1600 .
Wang X, Saunders TG, Wang Y, Fu L and Reece MJ. *Journal of The European Ceramic Society vol. 44, (2) 815-821.*

Enhancing the thermoelectric properties of TiO2-based ceramics through addition of carbon black and graphene oxide.
Liu X, Li S, Yu J, Zhu Y, Lin K, Wang B, Cai R, Ekren D, Lewis D, Kinloch IA, Reece MJ and Freer R. *Carbon vol. 216,.*

2023

Improved oxidation resistance of (Zr-Nb-Hf-Ta)(C, N) high entropy carbonitrides.
Wang Y, Wang X, Li S and Reece MJ. *Corrosion Science vol. 225,.*

Carbon deficiency introduced plasticity of rock-salt-structured transition metal carbides.
Zhang B, Wang Y, Yin J, Wang Y, Zhang H, Csandi T, Dusza J, Reece MJ, Lin N, Yang X, Liu X, Huang Z and Jiang D. *Journal of Materials Science and Technology vol. 164, 205-214.*

Joining graphite with ZrHfNbTa and TiZrHfTa high entropy alloy interlayers by spark plasma sintering.
Wang X, Saunders TG, Salvo M, Wang Y, Xiao X, Fu L and Reece MJ. *Journal of Materials Processing Technology vol. 320,.*

Simultaneous Increase in Dielectric Breakdown Strength and Thermal Conductivity of Oriented UHMWPE Containing Diamond Nanoparticles.
Yu X, Steiner P, Zhou Q, Kocabas C, Zhang H, Papageorgiou DG, Fenwick O, Yan H, Reece MJ and Bilotti E. *Macromolecules.American Chemical Society.*

An overview of oxidation in hybrid and glass-based protective coatings for thermoelectric materials for medium-temperature range applications.
D'Isanto F, Smeacetto F, Reece MJ and Salvo M. *Advances in Applied Ceramics Structural Functional and Bioceramics vol. 122, (5-8) 276-286.Sage Publications.*

Time dependent deformation of LaCoO3 based perovskites at different temperatures: ferroelastic and non-ferroelastic creep behaviour.
Lugovy M, Bondar M, Orlovskaya N, Reece MJ, Graule T and Blugan G. *Advances in Applied Ceramics Structural Functional and Bioceramics vol. 122, (5-8) 295-310.Sage Publications.*

Machine learning of carbon vacancy formation energy in high-entropy carbides.
Zhao X, Yu S, Zheng J, Reece MJ and Zhang R-Z. *Journal of The European Ceramic Society vol. 43, (4) 1315-1321. Elsevier.*

High-entropy MTiO3 perovskite oxides with glass-like thermal conductivity for thermoelectric applications.
Zhang P, Lou Z, Gong L, Xu J, Chen Q, Reece MJ, Yan H, Dashevsky Z and Gao F. *Journal of Alloys and Compounds vol. 937,.Elsevier.*

Relaxor ferroelectric behaviour observed in (Ca0.5Sr0.5Ba0.5Pb0.5)Nb2O7 perovskite layered structure ceramics.
Hu Z, Zhang H, Reece MJ, Viola G and Yan H. *Journal of The European Ceramic Society vol. 43, (1) 177-182. Elsevier.*

Optimization of thermoelectric properties of carbon nanotube veils by defect engineering.
Zeng C, Stenier P, Chen K, Wan K, Dong M, Li S, Kocabas C, Reece MJ, Papageorgiou DG, Volkov AN, Zhang H and Bilotti E. *Materials Horizons vol. 10, (9) 3601-3609.Royal Society of Chemistry (Rsc).*

2022

Ultra-low energy processing of graphite: a fast-track journey towards carbon neutrality.
Dai Z, Cong L, Zuo F, Biesuz M, Chen K, Bertolotti M, Kermani M, Yong L, Tyrpekl V, Hu C, Boi F, Lin H-T, Reece M and Grasso S. *Applied Materials Today vol. 29,.Elsevier.*

Grain orientation evolution and multi-scale interfaces enhanced thermoelectric properties of textured Sr0.9La0.1TiO3 based ceramics.
Zhang P, Qin M, Lou Z, Cao S, Gong L, Xu J, Reece MJ, Yan H, Dashevsky Z and Gao F. *Journal of The European Ceramic Society vol. 42, (15) 7017-7026.Elsevier.*

Terahertz Faraday Rotation of SrFe12O19Hexaferrites Enhanced by Nb Doping.
Hu Z, Stenning GBG, Koval V, Wu J, Yang B, Leavesley A, Wylde R, Reece MJ, Jia C and Yan H. *Acs Applied Materials and Interfaces vol. 14, (41) 46738-46747.*

The role of Cr addition on the processing and mechanical properties of high entropy carbides.
Wang Y, Csandi T, Fogarassy Z, Zhang B, Sedlk R, Wang X, Zhang C, Dusza J and Reece MJ. *Journal of The European Ceramic Society vol. 42, (13) 5273-5279.Elsevier.*

Low thermal conductivity in A-site high entropy perovskite relaxor ferroelectric.
Xiong W, Zhang H, Hu Z, Reece MJ and Yan H. *Applied Physics Letters vol. 121, (11).American Institute of Physics.*

Dielectric polymer composites with ultra-high thermal conductivity and low dielectric loss.
Yu X, Bhatti MR, Ren X, Steiner P, Di Sacco F, Dong M, Zhang H, Papageorgiou D, Portale G, Kocabas C, Bastiaansen CWM, Reece M, Yan H and Bilotti E. *Composites Science and Technology vol. 229,.Elsevier.*

A novel high-entropy perovskite ceramics Sr0.9La0.1(Zr0.25Sn0.25Ti0.25Hf0.25)O3 with low thermal conductivity and high Seebeck coefficient.
Lou Z, Zhang P, Zhu J, Gong L, Xu J, Chen Q, Reece MJ, Yan H and Gao F. *Journal of The European Ceramic Society vol. 42, (8) 3480-3488.Elsevier.*

Ablation behavior of (HfTaZrNbTi)C highentropy carbide and (HfTaZrNbTi)CxSiC composites.
Wang Y, Yu D, Yin J, Zhang B, Zhang H, Liu X, An Y, Reece MJ and Huang Z. *Journal of The American Ceramic Society vol. 105, (10) 6395-6406.Wiley.*

Ablation behaviour of (Hf-Ta-Zr-Nb)C high entropy carbide ceramic at temperatures above 2,100C.
Wang Y, Zhang B, Zhang C, Yin J and Reece MJ. *Journal of Material Science and Technology vol. 113, 40-47. Elsevier.*

Synthesis, microstructure, and mechanical properties of novel high entropy carbonitrides.
Wang Y, Csandi T, Zhang H, Dusza J and Reece MJ. *Acta Materialia vol. 231,.Elsevier.*

Low-cost Free-standing ferroelectric polymer films with high polarization produced via pressing-and-folding.
Meng N, Ren X, Wu J, Bilotti E, Reece MJ and Yan H. *Journal of Materiomics vol. 8, (3) 640-648.Elsevier.*

The effects of dual-doping and fabrication route on the thermoelectric response of calcium cobaltite ceramics.
Yu J, Liu X, Xiong W, Wang B, Reece MJ and Freer R. *Journal of Alloys and Compounds vol. 902,.Elsevier.*

Synthesis and densification of (Zr-Hf-Nb-Ta)C-Co high entropy cermet prepared by pressureless melt infiltration using spark plasma sintering.
Wang X, Saunders TG, Sedlk R, Csandi T, Wang Y, Dusza J, Fu L and Reece MJ. *Journal of Alloys and Compounds vol. 900,.Elsevier.*

Phase transformations in an Aurivillius layer structured ferroelectric designed using the high entropy concept.
Zhang M, Xu X, Ahmed S, Yue Y, Palma M, Svec P, Gao F, Abrahams I, Reece MJ and Yan H. *Acta Materialia 117815-117815.Elsevier.*

Thermal and electrical properties of a high entropy carbide (Ta, Hf, Nb, Zr) at elevated temperatures.
Schwind EC, Reece MJ, Castle E, Fahrenholtz WG and Hilmas GE. *Journal of The American Ceramic Society vol. 105, (6) 4426-4434.Wiley.*

Thermoelectric Performance of nType Magnetic Element Doped Bi2S3.
Fortulan R, Yamini SA, Nwanebu C, Li S, Baba T, Reece MJ and Mori T. *Acs Applied Energy Materials vol. 5, (3) 3845-3853.American Chemical Society (Acs).*

Synthesis and thermoelectric properties of high-entropy half-Heusler MFe1xCoxSb (M = equimolar Ti, Zr, Hf, V, Nb, Ta).
Chen K, Zhang R, Bos J-WG and Reece MJ. *Journal of Alloys and Compounds vol. 892,.Elsevier.*

High-entropy (Ca0.2Sr0.2Ba0.2La0.2Pb0.2)TiO3 perovskite ceramics with A-site short-range disorder for thermoelectric applications.
Zhang P, Lou Z, Qin M, Xu J, Zhu J, Shi Z, Chen Q, Reece MJ, Yan H and Gao F. *Journal of Material Science and Technology vol. 97, 182-189.Elsevier.*

High-Entropy Ceramics.
Zhang R-Z and Reece MJ. *Encyclopedia of Materials: Metals and Alloys 308-317. Elsevier.*

Ultra-high energy density integrated polymer dielectric capacitors.
Ren X, Meng N, Ventura L, Goutianos S, Barbieri E, Zhang H, Yan H, Reece MJ and Bilotti E. *Journal of Materials Chemistry A vol. 10, (18) 10171-10180.Royal Society of Chemistry (Rsc).*

2021

Fabrication and characterisation of single-phase Hf2Al4C5 ceramics.
Jayaseelan DD, Pramana S, Grasso S, Bai Y, Skinner S, Reece MJ and Lee WE. *Journal of The European Ceramic Society vol. 42, (4) 1292-1301.Elsevier.*

A review on advances in doping with alkali metals in halide perovskite materials.
Tabassum M, Zia Q, Zhou Y, Reece MJ and Su L. *Discover Applied Sciences vol. 3, (12).Springer Nature.*

Terahertz Characterization of Lead-Free Dielectrics for Different Applications.
Zhang M, Zhang H, Jiang Q, Gao F, Chen R, Zhang D, Reece MJ, Yang B, Viola G and Yan H. *Acs Applied Materials & Interfaces vol. 13, (45) 53492-53503.American Chemical Society (Acs).*

Hardness anisotropy and active slip systems in a (Hf-Ta-Zr-Nb)C high-entropy carbide during nanoindentation.

Csandi T, Girman V, Maj , Morgiel J, Reece MJ and Dusza J. *International Journal of Refractory Metals and Hard Materials vol. 100,.Elsevier.*

Flash Spark Plasma Sintering of SiC: Impact of Additives.
Sharma SK, Fides M, Hvizdo P, Reece MJ and Grasso S. *Silicon vol. 14, (12) 7377-7382.Springer Nature.*

Solidification microstructures of multielement carbides in the high entropy Zr-Nb-Hf-Ta-Cx system produced by arc melting.
Biesuz M, Saunders TG, Veverka J, Bortolotti M, Vontorov J, Vilémov M and Reece MJ. *Scripta Materialia vol. 203,. Elsevier.*

Densifying (Hf0.2Zr0.2Ta0.2Nb0.2Ti0.2)C highentropy ceramics by twostep pressureless sintering.
Yu D, Zhang B, Yin J, Wang Y, Liu X, Reece MJ and Huang Z. *Journal of The American Ceramic Society vol. 105, (1) 76-81.Wiley.*

Scalable and environmentally friendly mechanochemical synthesis of nanocrystalline rhodostannite (Cu2FeSn3S8).
Balž M, Dobrozhan O, Teinský M, Zhang R-Z, Džunda R, Dutkov E, Rajk M, Chen K, Reece MJ and Balž P. *Powder Technology vol. 388, 192-200.Elsevier.*

Strength Analysis and Stress-Strain Deformation Behavior of 3 mol% Y-TZP and 21 wt.% Al2O3-3 mol% Y-TZP.
Vladislavova L, Smolorz T, Orlovskaya N, Lugovy M, Reece MJ, Kbel S, Kopia A, Makowska M, Graule T and Blugan G. *Materials vol. 14, (14).Mdpi.*

Low temperature densification mechanism and properties of Ta1-x Hf x C solid solutions with decarbonization and phase transition of Cr3C2.
Zhang B, Yin J, Wang Y, Yu D, Liu H, Liu X, Reece MJ and Huang Z. *Journal of Materiomics vol. 7, (4) 672-682. Elsevier.*

Enhanced mechanical and thermal properties of ferroelastic high-entropy rare-earth-niobates.
Zhu J, Xu J, Zhang P, Meng X, Cao S, Wu J, Wei M, Shi Y, Reece MJ and Gao F. *Scripta Materialia vol. 200,. Elsevier.*

Effect of Loading and Heating History on Deformation of LaCoO3.
Lugovy M, Verbylo D, Orlovskaya N, Reece M, Kuebler J, Graule T and Blugan G. *Materials vol. 14, (13).Mdpi.*

Thermally-insulated ultra-fast high temperature sintering (UHS) of zirconia: A master sintering curve analysis.
Dong J, Pouchly V, Biesuz M, Tyrpekl V, Vilémov M, Kermani M, Reece M, Hu C and Grasso S. *Scripta Materialia vol. 203,.Elsevier.*

Pressureless sintering and properties of (Hf0.2Zr0.2Ta0.2Nb0.2Ti0.2)C high-entropy ceramics: The effect of pyrolytic carbon.
Yu D, Yin J, Zhang B, Liu X, Reece MJ, Liu W and Huang Z. *Journal of The European Ceramic Society vol. 41, (6) 3823-3831.Elsevier.*

Pressure assisted flash sintering of Mn-Co based spinel coatings for solid oxide electrolysis cells (SOECs).
Javed H, Saunders T, Reece MJ, Zanchi E, Sabato AG, Boccaccini AR and Smeacetto F. *Ceramics International vol. 47, (12) 17804-17808.Elsevier.*

Ultrafast high-temperature sintering (UHS) of fine grained -Al2O3.
Kermani M, Dong J, Biesuz M, Linx Y, Deng H, Sglavo VM, Reece MJ, Hu C and Grasso S. *Journal of The European Ceramic Society vol. 41, (13) 6626-6633.Elsevier.*

ZrB2,HfB2,OsB2 and IrB2 boride ceramics: Processing, structure, and properties.
Orlovskaya N, Hyer H, Sohn Y, Lugovy M, Blugan G, Graule T, Kuebler J, Yarmolenko S, Sankar J and Reece MJ. *Encyclopedia of Materials: Technical Ceramics and Glasses 200-215.*

A review of electromagnetic processing of materials (EPM): Heating, sintering, joining and forming.
Biesuz M, Saunders T, Ke D, Reece MJ, Hu C and Grasso S. *Journal of Material Science and Technology vol. 69, 239-272.Elsevier.*

Dual-phase rare-earth-zirconate high-entropy ceramics with glass-like thermal conductivity.
Zhu J, Meng X, Zhang P, Li Z, Xu J, Reece MJ and Gao F. *Journal of The European Ceramic Society vol. 41, (4) 2861-2869.Elsevier.*

Oxidation resistance of (Hf-Ta-Zr-Nb)C high entropy carbide powders compared with the component monocarbides and binary carbide powders.
Wang Y and Reece MJ. *Scripta Materialia vol. 193, 86-90.Elsevier.*

Pyrochlore-fluorite dual-phase high-entropy ceramic foams with extremely low thermal conductivity from particle-stabilized suspension.
Meng X, Xu J, Zhu J, Zhang P, Rydosz A, Reece MJ and Gao F. *Scripta Materialia vol. 194,.Elsevier.*

Thermoelectric CuS-Based Materials Synthesized via a Scalable Mechanochemical Process.
Balaz P, Achimovicova M, Balaz M, Chen K, Dobrozhan O, Guilmeau E, Hejtmanek J, Knizek K, Kubickova L, Levinsky P, Puchy V, Reece MJ, Varga P and Zhang R. *Acs Sustainable Chemistry & Engineering vol. 9, (5) 2003-2016.American Chemical Society (Acs).*

Effect of processing on the structures and properties of bismuth sodium titanate compounds.
Mahajan A, Zhang H, Wu J, Venkata Ramana E, Yu C, Tarakina NV, Reece MJ and Yan H. *Journal of Materials Research 1-11.Springer.*

Multi elements substituted Aurivillius phase relaxor ferroelectrics using high entropy design concept.
Zhang M, Xu X, Yue Y, Palma M, Reece MJ and Yan H. *Materials and Design 109447-109447.Elsevier.*

Response to comment on point defect structure of La-doped SrTiO3 ceramics with colossal permittivity.
Qin M, Gao F, Cizek J, Yang S, Fan X, Zhao L, Xu J, Dong G, Reece M and Yan H. *Scripta Materialia vol. 190, 118-120.*

Ultra-low thermal conductivity and enhanced mechanical properties of high-entropy rare earth niobates (RE3NbO7, RE = Dy, Y, Ho, Er, Yb).
Zhu J, Meng X, Xu J, Zhang P, Lou Z, Reece MJ and Gao F. *Journal of The European Ceramic Society vol. 41, (1) 1052-1057.Elsevier.*

Fast synthesis of n-type half-heusler TiNiSn thermoelectric material.
Chen K, Nuttall C, Stefanaki E, Placha K, Tuley R, Simpson K, Bos J-WG and Reece MJ. *Scripta Materialia vol. 191, 71-75.Elsevier.*

ZrB2, HfB2, OsB2 and IrB2 Boride Ceramics: Processing, Structure, and Properties.
Orlovskaya N, Hyer H, Sohn Y, Lugovy M, Blugan G, Graule T, Kuebler J, Yarmolenko S, Sankar J and Reece MJ. *Encyclopedia of Materials: Technical Ceramics and Glasses 200-215. Elsevier.*

ZrB2, HfB2, OsB2 and IrB2 Boride Ceramics: Processing, Structure, and Properties.
Orlovskaya N, Hyer H, Sohn Y, Lugovy M, Blugan G, Graule T, Kuebler J, Yarmolenko S, Sankar J and Reece MJ. *Encyclopedia of Materials: Technical Ceramics and Glasses: Volume 1-3.*

2020

Ultrafast Electric Field-Induced Phase Transition in Bulk Bi0.5Na0.5TiO3 under High-Intensity Terahertz Irradiation.
Zhang M, McKinnon RA, Viola G, Yang B, Zhang D, Reece MJ, Abrahams I and Yan H. *Acs Photonics.American Chemical Society.*

Electronic structure and thermal properties of Sm3+doped La2Zr2O7: Firstprinciples calculations and experimental study.
Li Y, Meng X, Chen Q, Zhu J, Xu J, Reece MJ and Gao F. *Journal of The American Ceramic Society vol. 104, (3) 1475-1488.Wiley.*

High Tunability and Low Loss in Layered Perovskite Dielectrics through Intrinsic Elimination of Oxygen Vacancies.
Zhang H, Gidden H, Saunders TG, Liu N, Aurallo-Peters V, Xu X, Palma M, Reece MJ, Abrahams I, Yan H and Hao Y. *Chemistry of Materials.American Chemical Society (Acs).*

Low-loss High Entropy Relaxor-like Ferroelectrics with A-site Disorder.
Xiong W, Zhang H, Cao S, Gao F, Svec P, Dusza J, Reece MJ and Yan H. *Journal of The European Ceramic Society. Elsevier.*

Small scale fracture and strength of high-entropy carbide grains during microcantilever bending experiments.
Csandi T, Vojtko M, Dankhzi Z, Reece MJ and Dusza J. *Journal of The European Ceramic Society vol. 40, (14) 4774-4782.Elsevier.*

The role of multi-elements and interlayer on the oxidation behaviour of (Hf-Ta-Zr-Nb)C high entropy ceramics.

Wang Y, Zhang R-Z, Zhang B, Skurikhina O, Balaz P, Araullo-Peters V and Reece MJ. *Corrosion Science vol. 176,. Elsevier.*

Multiscale understanding of electric polarization in poly(vinylidene fluoride)-based ferroelectric polymers.
Meng N, Ren X, Zhu X, Wu J, Yang B, Gao F, Zhang H, Liao Y, Bilotti E, Reece MJ and Yan H. *Journal of Materials Chemistry C.Royal Society of Chemistry.*

Enhancing the Thermoelectric Performance of Calcium Cobaltite Ceramics by Tuning Composition and Processing.
Yu J, Chen K, Azough F, Alvarez-Ruiz DT, Reece MJ and Freer R. *Acs Applied Materials & Interfaces vol. 12, (42) 47634-47646.American Chemical Society (Acs).*

Hybrid Flash-SPS of TiNiCu0.05Sn with reduced thermal conductivity.
Gucci F, Saunders TG, Srinivasan B, Cheviré F, Ferluccio DA, Bos J-WG and Reece MJ. *Journal of Alloys and Compounds vol. 837,.Elsevier.*

Oxidation protective glass coating for magnesium silicide based thermoelectrics.
D'Isanto F, Smeacetto F, Reece MJ, Chen K and Salvo M. *Ceramics International vol. 46, (15) 24312-24317.Elsevier.*

Enhanced Hardness in High-Entropy Carbides Through Atomic Randomness.
Wang Y, Csandi T, Zhang H, Dusza J, Reece M and Zhang R-Z. *Advanced Theory and Simulations.Wiley-Blackwell.*

Flash cold sintering: Combining water and electricity.
Kermani M, Biesuz M, Dong J, Deng H, Bortolotti M, Chiappini A, Reece MJ, Sglavo VM, Hu C and Grasso S. *Journal of The European Ceramic Society vol. 40, (15) 6266-6271.Elsevier.*

Structural and electronic evolution in the Cu3SbS4-Cu3SnS4solid solution.
Chen K, Di Paola C, Laricchia S, Reece MJ, Weber C, McCabe E, Abrahams I and Bonini N. *Journal of Materials Chemistry C vol. 8, (33) 11508-11516.Royal Society of Chemistry.*

Hierarchically porous lanthanum zirconate foams with low thermal conductivity from particlestabilized foams.
Meng X, Xu J, Zhu J, Li Z, Zhao J, Reece MJ and Gao F. *Journal of The American Ceramic Society vol. 103, (11) 6088-6095.Wiley.*

Improved creep resistance of high entropy transition metal carbides.
Han X, Girman V, Sedlak R, Dusza J, Castle EG, Wang Y, Reece M and Zhang C. *Journal of The European Ceramic Society vol. 40, (7) 2709-2715.Elsevier.*

Interfacial reaction between ZrNbHfTa foil and graphite: Formation of high-entropy carbide and the effect of heating rate on its microstructure.
Biesuz M, Saunders TG, Chen K, Bortolotti M, Salvo M, Grasso S and Reece MJ. *Journal of The European Ceramic Society vol. 40, (7) 2699-2708.Elsevier.*

Substitutional doping of hybrid organic-inorganic perovskite crystals for thermoelectrics.
TANG W, Zhang J, RATNASINGHAM SR, Liscio F, CHEN K, Liu T, Wan K, Suena Galindez E, Bilotti E, Reece M, Baxendale M, Milita S, McLachlan M, Su L and Fenwick O. *Journal of Materials Chemistry A.Royal Society of Chemistry (Rsc).*

Colossal thermoelectric enhancement in Cu2+xZn1xSnS4solid solution by local disordering of crystal lattice and multi-scale defect engineering.
Jiang Q, Yan H, Lin Y, Shen Y, Yang J and Reece MJ. *Journal of Materials Chemistry A vol. 8, (21) 10909-10916. Royal Society of Chemistry.*

An investigation of the corrosion behavior of 316L stainless steel fabricated by SLM and SPS techniques.
Kale AB, Kim B-K, Kim D-I, Castle EG, Reece M and Choi S-H. *Materials Characterization vol. 163,.Elsevier.*

Magnetic field-induced alignment of nanofibrous supramolecular membranes: a molecular design approach to create tissue-like biomaterials.
Radvar E, Shi Y, Grasso S, Edwards-Gayle CJC, Liu X, Mauter MS, Castelletto V, Hamley IW, Reece MJ and Azevedo HS. *Acs Applied Materials and Interfaces.American Chemical Society.*

Highly textured and strongly anisotropic TiB2 ceramics prepared using magnetic field alignment (9T).
Tatarko P, Grasso S, Kovalíkov A, Medve D, Dlouhý I and Reece MJ. *Journal of The European Ceramic Society vol. 40, (4) 1111-1118.Elsevier.*

Spark Plasma Sintered B4CStructural, Thermal, Electrical and Mechanical Properties.
Kuliiev R, Orlovskaya N, Hyer H, Sohn Y, Lugovy M, Ha D, Radovic M, Castle EG, Reece MJ, Sasikumar PVW, Conti L, Graule T, Kuebler J and Blugan G. *Materials vol. 13, (7).Mdpi.*

The Contribution of Electrical Conductivity, Dielectric Permittivity and Domain Switching in Ferroelectric Hysteresis Loops.
Yan H, Inam F, Viola G, Ning H, Zhang H, Jiang Q, Zeng T, Gao Z and Reece MJ. *Progress in Advanced Dielectrics 1-20. World Scientific Publishing.*

Photocatalytic activity of 2D nanosheets of ferroelectric Dion-Jacobson compounds.
Xiong W, Porwal H, Luo H, Araullo-Peters V, Feng J, Titirici MM, Reece MJ and Briscoe J. *Journal of Materials Chemistry A vol. 8, (14) 6564-6568.Royal Society of Chemistry.*

Giant energy storage density in PVDF with internal stress engineered polar nanostructures.
Ren X, Meng N, Zhang H, Wu J, Abrahams I, Yan H, Bilotti E and Reece MJ. *Nano Energy vol. 72,.Elsevier.*

A review of cold sintering processes.
Grasso S, Biesuz M, Zoli L, Taveri G, Duff AI, Ke D, Jiang A and Reece MJ. *Advances in Applied Ceramics vol. 119, (3) 115-143.Sage Publications.*

High thermoelectric performance of Ca3Co4O9 ceramics with duplex structure fabricated via two-step pressureless sintering.
Shi Z, Xu J, Zhu J, Zhang R, Qin M, Lou Z, Gao T, Reece M and Gao F. *Journal of Materials Science: Materials in Electronics vol. 31, (4) 2938-2948.Springer Nature.*

Effect of MnO2 on the microstructure and electrical properties of 0.83Pb(Zr0.5Ti0.5)O3-0.11Pb(Zn1/3Nb2/3)O3-0.06Pb(Ni1/3Nb2/3)O3 piezoelectric ceramics.
Li L, Liu J, Xu J, Cao S, Chen Q, Pawlikowska E, Szafran M, Gao F, Reece M and Yan H. *Ceramics International vol. 46, (1) 180-185.Elsevier.*

2019

Flash joining of conductive ceramics in a few seconds by flash spark plasma sintering.
Biesuz M, Saunders TG, Grasso S, Speranza G, Sorarù GD, Campostrini R, Sglavo VM and Reece MJ. *Journal of The European Ceramic Society vol. 39, (15) 4664-4672.Elsevier.*

European Radioisotope Thermoelectric Generators (RTGs) and Radioisotope Heater Units (RHUs) for Space Science and Exploration.
Ambrosi RM, Williams H, Watkinson EJ, Barco A, Mesalam R, Crawford T, Bicknell C, Samara-Ratna P, Vernon D, Bannister N, Ross D, Sykes J, Perkinson M-C, Burgess C, Stroud C, Gibson S, Godfrey A, Slater RG, Reece MJ, Chen K, Simpson K, Tuley R, Sarsfield M, Tinsley TP, Stephenson K, Freis D, Vigier J-F, Konings RJM, Fongarland C and Libessart M. *Space Science Reviews vol. 215, (8).Springer Nature.*

Ultrahigh -phase content poly(vinylidene fluoride) with relaxor-like ferroelectricity for high energy density capacitors.
Meng N, Ren X, Santagiuliana G, Ventura L, Zhang H, Wu J, Yan H, Reece MJ and Bilotti E. *Nature Communications vol. 10, (1).Springer Nature.*

The structure and thermoelectric properties of tungsten bronze Ba6Ti2Nb8O30.
Jiang D, Ekren D, Azough F, Day SJ, Chen K, Mahajan A, Kepaptsoglou DM, Ramasse QM, Reece MJ and Freer R. *Journal of Applied Physics vol. 126, (12).Aip Publishing.*

High temperature stiffening of ferroelastic LaCoO3.
Orlovskaya N, Lugovy M, Verbylo D, Reece MJ, Graule T and Kuebler J. *Journal of The European Ceramic Society vol. 39, (11) 3338-3343.Elsevier.*

(Invited) Tuning of Catalytic Activity By Thermoelectric Effect.
Achour A, Liu J, Peng P, Chen K, Reece M, Shaw C and Huang Z. *Ecs Meeting Abstracts vol. MA2019-02, (26) 1204-1204.The Electrochemical Society.*

Strength enhancement and slip behaviour of high-entropy carbide grains during micro-compression.
Csandi T, Castle E, Reece MJ and Dusza J. *Scientific Reports vol. 9, (1).Springer Nature.*

Design and development of ring-on-ring jig for biaxial strength testing of brittle ceramic composite materials: ZrB2-30wt-%SiB6.
Carrasco-Pena A, Jordan R, Dieguez J, Coronado-Rodríguez A, Ozdemir VB, Kwok K, Orlovskaya N, Vazquez-Molina DA, Uribe-Romo FJ, Bolon A, Radovic M, Grasso S and Reece MJ. *Advances in Applied Ceramics vol. 118, (4) 159-168.Sage Publications.*

Flash spark plasma sintering of 3YSZ.
Biesuz M, Sedlk R, Saunders T, Kovalíkov A, Dusza J, Reece M, Zhu D, Hu C and Grasso S. *Journal of The European Ceramic Society vol. 39, (5) 1932-1937.Elsevier.*

A novel microstructural design to improve the oxidation resistance of ZrB2-SiC ultra-high temperature ceramics (UHTCs).
Zhang H, Jayaseelan DD, Bogomol I, Reece MJ, Hu C, Grasso S and Lee WE. *Journal of Alloys and Compounds vol. 785, 958-964.Elsevier.*

Microstructure and broadband dielectric properties of Zn 2 SiO 4 ceramics with nano-sized TiO 2 addition.
Weng Z, Song C, Xiong Z, Xue H, Sun W, Zhang Y, Yang B, Reece MJ and Yan H. *Ceramics International.*

Twostep processing of thermoelectric (Ca 0.9 Ag 0.1) 3 Co 4 O 9 /nanosized Ag composites with high ZT.
Shi Z, Gao F, Xu J, Zhu J, Zhang Y, Gao T, Qin M, Reece M and Yan H. *Journal of The European Ceramic Society.*

Anomalous slip of ZrB2 ceramic grains during in-situ micropillar compression up to 500C.
Csandi T, Wehrs J, Grasso S, Reece M, Michler J and Dusza J. *International Journal of Refractory Metals and Hard Materials vol. 80, 270-276.Elsevier.*

High entropy Sr((Zr0.94Y0.06)0.2Sn0.2Ti0.2Hf0.2Mn0.2)O3x perovskite synthesis by reactive spark plasma sintering.
Biesuz M, Fu S, Dong J, Jiang A, Ke D, Xu Q, Zhu D, Bortolotti M, Reece MJ, Hu C and Grasso S. *Journal of Asian Ceramic Societies vol. 7, (2) 127-132.Taylor & Francis.*

Remarkably enhanced polarisability and breakdown strength in PVDF-based interactive polymer blends for advanced energy storage applications.
Ren X, Meng N, Yan H, Bilotti E and Reece MJ. *Polymer vol. 168, 246-254.*

Oxidation Protective Hybrid Coating for Thermoelectric Materials.
Gucci F, D Isanto F, Zhang R, Reece MJ, Smeacetto F and Salvo M. *Materials vol. 12, (4).Mdpi.*

Mechanochemistry for Thermoelectrics: Nanobulk Cu6Fe2SnS8/Cu2FeSnS4 Composite Synthesized in an Industrial Mill.
Balž P, Hegeds M, Reece M, Zhang R-Z, Su T, Škorvnek I, Brianin J, Balž M, Mihlik M, Teínsky M and Achimoviov M. *Journal of Electronic Materials vol. 48, (4) 1846-1856.Springer Nature.*

Glass-ceramic oxidation protection of higher manganese silicide thermoelectrics.
Salvo M, Smeacetto F, D Isanto F, Viola G, Demitri P, Gucci F and Reece MJ. *Journal of The European Ceramic Society vol. 39, (1) 66-71.Elsevier.*

Crystal structure and improved thermoelectric performance of iron stabilized cubic Cu 3 SbS 3 compound.
Du B, Zhang R, Liu M, Chen K, Zhang H and Reece MJ. *Journal of Materials Chemistry C vol. 7, (2) 394-404.Royal Society of Chemistry (Rsc).*

Realizing a stable high thermoelectric zT 2 over a broad temperature range in Ge 1xy Ga x Sb y Te via band engineering and hybrid flash-SPS processing.
Srinivasan B, Gellé A, Gucci F, Boussard-Pledel C, Fontaine B, Gautier R, Halet J-F, Reece MJ and Bureau B. *Inorganic Chemistry Frontiers vol. 6, (1) 63-73.Royal Society of Chemistry (Rsc).*

Review of high entropy ceramics: design, synthesis, structure and properties.
Zhang R-Z and Reece MJ. *Journal of Materials Chemistry A vol. 7, (39) 22148-22162.Royal Society of Chemistry (Rsc).*

Anisotropy and enhancement of thermoelectric performance of Sr 0.8 La 0.067 Ti 0.8 Nb 0.2 O 3 ceramics by graphene additions.
Srivastava D, Norman C, Azough F, Ekren D, Chen K, Reece MJ, Kinloch IA and Freer R. *Journal of Materials Chemistry A vol. 7, (42) 24602-24613.Royal Society of Chemistry (Rsc).*

Chapter 7 Refined SPS modeling based on calibrated current and voltage measurements.
Gucci F, Saunders T, Reece M and Grasso S. *Spark Plasma Sintering 163-184. Elsevier.*

2018

Time and frequency dependent mechanical properties of LaCoO3-based perovskites: Neutron diffraction and domain mobility.
Lugovy M, Aman A, Orlovskaya N, Slyunyayev V, Graule T, Kuebler J, Reece MJ, Chen Y, Ma D and An K. *Journal of Applied Physics vol. 124, (20).Aip Publishing.*

Time and frequency dependent mechanical properties of LaCoO3-based perovskites: Internal friction and negative creep.
Lugovy M, Orlovskaya N, Pathak S, Radovic M, Lara-Curzio E, Verbylo D, Kuebler J, Graule T and Reece MJ. *Journal of Applied Physics vol. 124, (20).Aip Publishing.*

Flash spark plasma sintering of HfB2 ceramics without pre-sintering.
Zou J, Grasso S, Liu L-F, Ma H-B, Reece M and Binner J. *Scripta Materialia vol. 156, 115-119.Elsevier.*

Data-Driven Design of Ecofriendly Thermoelectric High-Entropy Sulfides.
Zhang R-Z, Gucci F, Zhu H, Chen K and Reece MJ. *Inorg Chem vol. 57, (20) 13027-13033.*

Point defect structure of La-doped SrTiO3 ceramics with colossal permittivity.
Qin M, Gao F, Cizek J, Yang S, Fan X, Zhao L, Xu J, Dong G, REECE M and YAN H. *Acta Materialia vol. 164, 76-89.*

Effect of the Processing Route on the Thermoelectric Performance of Nanostructured CuPb18SbTe20.
Srinivasan B, Fontaine B, Gucci F, Dorcet V, Saunders TG, Yu M, Chevire F, Boussard-Pledel C, Halet J-F, Gautier R, Reece MJ and Bureau B. *Inorganic Chemistry vol. 57, (20) 12976-12986.American Chemical Society (Acs).*

Microstructure characterization and thermoelectric properties of Sr0.9La0.1TiO3 ceramics with nano-sized Ag as additive.
Qin M, Gao F, Dong G, Xu J, Fu M, Wang Y, Reece M and Yan H. *Journal of Alloys and Compounds vol. 762, 80-89.*

Effect of Heat Treatment on the Properties of Wood-Derived Biocarbon Structures.
Yu M, Saunders T, Su T, Gucci F and Reece MJ. *Materials vol. 11, (9).Mdpi.*

Effectiveness of boria welding flux in improving the wettability of ZrB2 in contact with molten Cu.
Saunders T, Tatarko P, Grasso S and Reece MJ. *Journal of The European Ceramic Society vol. 38, (12) 4198-4202. Elsevier.*

Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds.
REECE MJ. *Materials Letters vol. 232, 14-17.*

In situ synthesis of m-type unfilled skutterudite with reduced thermal conductivity by hybrid Flash-Spark Plasma sintering.
GUCCI F, SAUNDERS T and REECE M. *Scripta Materialia vol. 157, 58-61.Elsevier.*

Enhanced thermoelectric performance of Sn-doped Cu3SbS4.
Chen K, Di Paola C, Du B, Zhang R, Laricchia S, Bonini N, Weber C, Abrahams I, Yan H and Reece M. *Journal of Materials Chemistry C vol. 6, (31) 8546-8552.*

Graphene-reinforced silicon oxycarbide composites prepared by phase transfer.
YU M. *Carbon.*

Investigation of Electrochemical, Optical and Thermal Effects during Flash Sintering of 8YSZ.
Biesuz M, Pinter L, Saunders T, Reece M, Binner J, Sglavo VM and Grasso S. *Materials vol. 11, (7).Mdpi.*

DC-electro softening in soda lime silicate glass: An electro-thermal analysis.
Pinter L, Biesuz M, Sglavo VM, Saunders T, Binner J, Reece M and Grasso S. *Scripta Materialia vol. 151, 14-18. Elsevier.*

Processing and Properties of High Entropy Ultra-High Temperature Carbides.
CASTLE E, Csandi T, GRASSO S, Dusza J and REECE M. *Scientific Reports vol. 8, 8609-8609.Nature Publishing Group.*

Microstructure of (Hf-Ta-Zr-Nb)C high-entropy carbide at micro and nano/atomic level.
Dusza J, Švec P, Girman V, Sedlk R, Castle EG, Csandi T, Kovalíkov A and Reece MJ. *Journal of The European Ceramic Society.*

Preparation and properties of biomorphic potassium-based geopolymer (KGP)-biocarbon (CB) composite.
Yu M, Bernardo E, Colombo P, Romero AR, Tatarko P, Kannuchamy VK, Titirici MM, Castle EG, Picot OT and Reece MJ. *Ceramics International.*

SrFe12O19 based ceramics with ultra-low dielectric loss in the millimetre-wave band.
YU C, YANG B, ABRAHAMS I and YAN H. *Applied Physics Letters.Aip Publishing.*

Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content.
Han G, Popuri SR, Greer HF, Zhang R, Ferre-Llin L, Bos J-WG, Zhou W, Reece MJ, Paul DJ, Knox AR and Gregory DH. *Chem Sci vol. 9, (15) 3828-3836.*

Enhanced dielectric tunability and energy storage properties of plate-like Ba0.6Sr0.4TiO3/poly(vinylidene fluoride) composites through texture arrangement.
Wang L, Gao F, Xu J, Zhang K, Kong J, Reece M and Yan H. *Composites Science and Technology vol. 158, 112-120.*

Enhanced thermoelectric performance of Cs doped BiCuSeO prepared through eco-friendly flux synthesis.
Achour A, Chen K, Reece MJ and Huang Z. *Journal of Alloys and Compounds vol. 735, 861-869.Elsevier.*

2017

Impact of Coinage Metal Insertion on the Thermoelectric Properties of GeTe Solid-State Solutions.
Srinivasan B, Gautier R, Gucci F, Fontaine B, Halet J-F, Chevire F, Boussard-Pledel C, Reece MJ and Bureau B. *The Journal of Physical Chemistry C vol. 122, (1) 227-235.American Chemical Society (Acs).*

Magnéli phase titanium suboxides by Flash Spark Plasma Sintering.
Yu M, Saunders T, Grasso S, Mahajan A, Zhang H and Reece MJ. *Scripta Materialia vol. 146, 241-245.*

Understanding and quantification of grain growth mechanism in ZrO2carbon nanotube composites.
Milsom B, Porwal H, Viola G, Gao Z and Reece MJ. *Materials & Design vol. 133, 325-331.Elsevier.*

Influence of spark plasma sintering parameters on magnetic properties of FeCo alloy.
Albaaji AJ, Castle EG, Reece MJ, Hall JP and Evans SL. *Aip Advances vol. 8, (4).*

Tuning of Catalytic Activity by Thermoelectric Materials for Carbon Dioxide Hydrogenation.
Achour A, Chen K, Reece MJ and Huang Z. *Advanced Energy Materials vol. 8, (5).Wiley.*

Flash joining of CVD-SiC coated Cf/SiC composites with a Ti interlayer.
Tatarko P, Grasso S, Saunders TG, Casalegno V, Ferraris M and Reece MJ. *Journal of The European Ceramic Society vol. 37, (13) 3841-3848.Elsevier.*

The effect of processing conditions on phase and microstructure of CaGeO3 ceramics.
Viola G, D'Isanto F, Mahmoud AE-R, Reece MJ, Cempura G, Smeacetto F and Salvo M. *Ceramics International vol. 43, (15) 12035-12043.Elsevier.*

Impact of spark plasma sintering (SPS) on mullite formation in porcelains.
Lerdprom W, Bhowmik A, Grasso S, Zapata-Solvas E, Jayaseelan DD, Reece MJ and Lee WE. *Journal of The American Ceramic Society vol. 101, (2) 525-535.*

The deformation and fracture behaviors of 316L stainless steels fabricated by spark plasma sintering technique under uniaxial tension.
Kale AB, Bag A, Hwang JH, CASTLE E, Reece MJ and Choi SH. *Materials Science and Engineering: A vol. 707, 362-372.Elsevier.*

Enhancement in thermoelectric performance of n-type Pb-deficit Pb-Sb-Te alloys.
Srinivasan B, Gucci F, Boussard-Pledel C, Cheviré F, Reece MJ, Tricot S, Calvez L and Bureau B. *Journal of Alloys and Compounds vol. 729, 198-202.*

High coercivity, anisotropic, heavy rare earth-free Nd-Fe-B by Flash Spark Plasma Sintering.
CASTLE E, Sheridan R, Zhou W, Grasso S, Walton A and Reece MJ. *Scientific Reports.*Li S. *Nature Publishing Group.*

Rapid spark plasma sintering to produce dense UHTCs reinforced with undamaged carbon fibres.
Zoli L, Vinci A, Silvestroni L, Sciti D, Reece M and Grasso S. *Materials & Design vol. 130, 1-7.Elsevier.*

Enhancement in the elongation, yield strength and magnetic properties of intermetallic FeCo alloy using spark plasma sintering.
Albaaji A, CASTLE E, Reece MJ, Hall JP and Evans SL. *Journal of Materials Science.*

Sintering trials of analogues of americium oxides for radioisotope power systems.
Watkinson EJ, Ambrosi RM, Kramer DP, Williams HR, Reece MJ, Chen K, Sarsfield MJ, Barklay CD, Fenwick H, Weston DP and Stephenson K. *Journal of Nuclear Materials vol. 491, 18-30.Elsevier.*

Titanium Dioxide Engineered for Near-dispersionless High Terahertz Permittivity and Ultra-low-loss.
Yu C, Zeng Y, Yang B, Donnan R, Huang J, Xiong Z, Mahajan A, Shi B, Ye H, Binions R, Tarakina NV, Reece MJ and Yan H. *Scientific Reports vol. 7, (1).Springer Nature.*

Crystallization kinetics and enhanced dielectric properties of free standing lead-free PVDF based composite films.
Meng N, Mao R, Tu W, Odolczyk K, Zhang Q, Bilotti E and Reece MJ. *Polymer vol. 121, 88-96.*

Pressureless spark plasmasintered Bioglass 45S5 with enhanced mechanical properties and stressinduced new phase formation.
Bertolla L, Dlouhý I, Tatarko P, Viani A, Mahajan A, Chlup Z, Reece MJ and Boccaccini AR. *Journal of The European Ceramic Society vol. 37, (7) 2727-2736.Elsevier.*

Peltier effect during spark plasma sintering (SPS) of thermoelectric materials.
Maizza G, Mastrorillo GD, Grasso S, Ning H and Reece MJ. *Journal of Materials Science vol. 52, (17) 10341-10352. Springer Nature.*

Densification behaviour and physico-mechanical properties of porcelains prepared using spark plasma sintering.
Lerdprom W, Grasso S, Jayaseelan DD, Reece MJ and Lee WE. *Advances in Applied Ceramics vol. 116, (6) 307-315.*

Thermoelectric Properties of Highly-Crystallized Ge-Te-Se Glasses Doped with Cu/Bi.
Srinivasan B, Boussard-Pledel C, Dorcet V, Samanta M, Biswas K, Lefèvre R, Gascoin F, Cheviré F, Tricot S, Reece M and Bureau B. *Materials vol. 10, (4).Mdpi.*

Flash spark plasma sintering of cold-Pressed TiB2-hBN.
McKinnon R, Grasso S, Tudball A and Reece MJ. *Journal of The European Ceramic Society vol. 37, (8) 2787-2794.*

Effect of ball-milling time on mechanical and magnetic properties.
Albaaji AJ, CASTLE E, Reece MJ, Hall JP and Evans SL. *Materials and Design.Elsevier.*

Nanoscale Interfacial Electroactivity in PVDF/PVDF-TrFE Blended Films with Enhanced Dielectric and Ferroelectric Properties.
MENG N, Zhu X, Mao R, Reece M and Bilotti E. *Journal of Materials Chemistry C vol. 5, 3296-3305.Royal Society of Chemistry.*

Large-Scale Surfactant-Free Synthesis of p-Type SnTe Nanoparticles for Thermoelectric Applications.
Han G, Zhang R, Popuri SR, Greer HF, Reece MJ, Bos J-WG, Zhou W, Knox AR and Gregory DH. *Materials (Basel) vol. 10, (3).Mdpi Ag.*

Microstructural comparison of effects of hafnium and titanium additions in spark-plasma-sintered Fe-based oxide-dispersion strengthened alloys.
Huang Y, Zhang H, Auger MA, Hong Z, Ning H, Gorley MJ, Grant PS, Reece MJ, Yan H and Roberts SG. *Journal of Nuclear Materials vol. 487, 433-442.*

Effect of Phase Transitions on Thermal Depoling in Lead-Free 0.94(Bi0.5Na0.5TiO3)0.06(BaTiO3) Based Piezoelectrics.
MAHAJAN A, Zhang H, Wu J, Ramana EV, Reece M and Yan H. *The Journal of Physical Chemistry C.American Chemical Society.*

Screening for CuS based 1 thermoelectric materials using crystal structure features.
Zhang R, Chen K, Du B and REECE MJ. *Journal of Materials Chemistry A.Royal Society of Chemistry.*

Using graphene networks to build bioinspired self-monitoring ceramics.
Picot OT, Rocha VG, Ferraro C, Ni N, D'Elia E, Meille S, Chevalier J, Saunders T, Peijs T, Reece MJ and Saiz E. *Nat Commun vol. 8, 14425-14425.*

Flash spark plasma sintering of magnesium silicide stannide with improved thermoelectric properties.
Du B, Gucci F, Porwal H, Grasso S, Mahajan A and Reece MJ. *Journal of Materials Chemistry C vol. 5, (6) 1514-1521.*

The impact of lone-pair electrons on the lattice thermal conductivity of the thermoelectric compound CuSbS2.
Du B, Zhang R, Chen K, Mahajan A and Reece MJ. *Journal of Materials Chemistry A vol. 5, (7) 3249-3259.*

Spontaneous Formation of Interwoven Porous Channels in Hard-Wood-Based Hard-Carbon for High-Performance Anodes in Potassium-Ion Batteries.
Prabakar SJR, Han SC, Park C, Bhairuba IA, Reece MJ, Sohn K-S and Pyo M. *Journal of The Electrochemical Society vol. 164, (9) a2012-a2016.The Electrochemical Society.*

2016

Wetting and interfacial phenomena of NiTa alloys on CVDSiC.
Valenza F, Gambaro S, Muolo ML, Cacciamani G, Tatarko P, Saunders TG, Reece MJ, Schmidt A, Schubert T, Weißgärber T and Passerone A. *International Journal of Applied Ceramic Technology vol. 14, (3) 295-304.Wiley.*

Review of flash sintering: materials, mechanisms and modelling.
Yu M, Grasso S, Mckinnon R, Saunders T and Reece MJ. *Advances in Applied Ceramics vol. 116, (1) 24-60.Taylor & Francis.*

Theory-Guided Synthesis of an Eco-Friendly and Low-Cost Copper Based Sulfide Thermoelectric Material.
Chen K, Du B, Bonini N, Weber C, Yan H and Reece MJ. *Journal of Physical Chemistry C vol. 120, (48) 27135-27140.*

Joining of CVD-SiC coated and uncoated fibre reinforced ceramic matrix composites with pre-sintered Ti3SiC2 MAX phase using Spark Plasma Sintering.
Tatarko P, Casalegno V, Hu C, Salvo M, Ferraris M and Reece MJ. *Journal of The European Ceramic Society vol. 36, (16) 3957-3967.*

Investigating the highest melting temperature materials: A laser melting study of the TaC-HfC system.
Cedillos-Barraza O, Manara D, Boboridis K, Watkins T, Grasso S, Jayaseelan DD, Konings RJM, Reece MJ and Lee WE. *Sci Rep vol. 6, 37962-37962.*

Non-congruence of high-temperature mechanical and structural behaviors of LaCoO3 based perovskites.
Aman A, Jordan R, Chen Y, Stadelmann R, Lugovy M, Orlovskaya N, Payzant EA, dela Cruz C, Reece MJ, Graule T and Kuebler J. *Journal of The European Ceramic Society vol. 37, (4) 1563-1576.*

High temperature properties of the monolithic CVD -SiC materials joined with a pre-sintered MAX phase Ti3SiC2 interlayer via solid-state diffusion bonding.
Tatarko P, Chlup Z, Mahajan A, Casalegno V, Saunders TG, Dlouhý I and Reece MJ. *Journal of The European Ceramic Society vol. 37, (4) 1205-1216.*

Mechanical and magnetic properties of spark plasma sintered soft magnetic FeCo alloy reinforced by carbon nanotubes.
Albaaji AJ, CASTLE E, Reece MJ, Hall JP and Evans SL. *Journal of Materials Research.Cambridge University Press (Cup): Stm Journals.*

Erratum: Corrigendum to Mechanical properties and residual stresses in ZrB2SiC spark plasma sintered ceramic composites (J. Eur. Ceram. Soc. (2016) 36(7) (15271537)).
Stadelmann R, Lugovy M, Orlovskaya N, Mchaffey P, Radovic M, Sglavo VM, Grasso S and Reece MJ. *Journal of The European Ceramic Society vol. 36, (14) 3545-3545.*

Growth of SiC platelets using contactless flash technique.
Wang C, Wu D, Grasso S, Saunders T, Castle E, Yan H and Reece MJ. *Nippon Seramikkusu Kyokai Gakujutsu Ronbunshi/Journal of The Ceramic Society of Japan vol. 124, (9) 845-847.*

Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiber-Graphene Nanoplatelet Materials.
Wu X, Mahalingam S, Amir A, Porwal H, Reece MJ, Naglieri V, Colombo P and Edirisinghe M. *Acs Omega vol. 1, (2) 202-211.*

Processing and Characterization of Free Standing Highly Oriented Ferroelectric Polymer Films with Remarkably Low Coercive Field and High Remnant Polarization.
MENG N, Mao R, Tu W, Zhu X, Wilson R, Bilotti E and Reece M. *Polymer vol. 100, 69-76.*

Synthesis and properties of graphene and graphene/carbon nanotube-reinforced soft magnetic FeCo alloy composites by spark plasma sintering.
Albaaji AJ, Castle EG, Reece MJ, Hall JP and Evans SL. *Journal of Materials Science vol. 51, (16) 7624-7635.*

Oxidation protective glassceramic coating for higher manganese silicide thermoelectrics.
Ning H, Reece MJ, Smeacetto F and Salvo M. *Journal of Materials Science vol. 51, (20) 9484-9489.Springer Verlag (Germany).*

Ultrafast-Contactless Flash Sintering using Plasma Electrodes.
Saunders T, Grasso S and Reece MJ. *Scientific Reports vol. 6,.*

Mechanical properties and residual stresses in ZrB2SiC spark plasma sintered ceramic composites.
Stadelmann R, Lugovy M, Orlovskaya N, Mchaffey P, Radovic M, Sglavo VM, Grasso S and Reece MJ. *Journal of The European Ceramic Society vol. 36, (7) 1527-1537.Elsevier.*

Rapid Sintering of Anisotropic, Nanograined Nd-Fe-B by Flash-Spark Plasma Sintering.
CASTLE E, Grasso S, Reece MJ, Sheridan R and Walton A. *Journal of Magnetism and Magnetic Materials.*

Cyclic fatigue effect in particulate ceramic composites.
Lugovy M, Slyunyayev V, Orlovskaya N, Reece M, Graule T and Kuebler J. *Journal of The European Ceramic Society vol. 36, (14) 3257-3266.Elsevier.*

Effect of lateral size of graphene nano-sheets on the mechanical properties and machinability of alumina nano-composites.
Porwal H, Saggar R, Tatarko P, Grasso S, Saunders T, Dlouhý I and Reece MJ. *Ceramics International vol. 42, (6) 7533-7542.Elsevier.*

Graphene nanoplatelets loaded polyurethane and phenolic resin fibres by combination of pressure and gyration.

Amir A, Mahalingam S, Wu X, Porwal H, Colombo P, Reece MJ and Edirisinghe M. *Composites Science and Technology vol. 129, 173-182.Elsevier.*

Perfluorinated polysiloxane hybridized with graphene oxide for corrosion inhibition of AZ31 magnesium alloy.
Ikhe AB, Kale AB, Jeong J, Reece MJ, Choi S-H and Pyo M. *Corrosion Science vol. 109, 238-245.*

Flash Spark Plasma Sintering (FSPS) of and SiC.
Grasso S, Saunders T, Porwal H, Milsom B, Tudball A and Reece M. *Journal of The American Ceramic Society vol. 99, (5) 1534-1543.Wiley.*

Ultra-Rapid Crystal Growth of Textured SiC Using Flash Spark Plasma Sintering Route.
Grasso S, Kim E-Y, Saunders T, Yu M, Tudball A, Choi S-H and Reece M. *Crystal Growth and Design vol. 16, (4) 2317-2321.American Chemical Society.*

Sintering behaviour, solid solution formation and characterisation of TaC, HfC and TaC-HfC fabricated by spark plasma sintering.
Cedillos-Barraza O, Grasso S, Nasiri NA, Jayaseelan DD, Reece MJ and Lee WE. *Journal of The European Ceramic Society vol. 36, (7) 1539-1548.*

Plasticity in ZrB2 micropillars induced by anomalous slip activation.
Csandi T, Szommer P, Chinh NQ, Grasso S, Dusza J and Reece M. *Journal of The European Ceramic Society vol. 36, (3) 389-394.Elsevier.*

Efficacy of lone-pair electrons to engender ultralow thermal conductivity.
Du B, Chen K, Yan H and Reece MJ. *Scripta Materialia vol. 111, 49-53.*

Efficacy of lone-pair electrons to engender ultralow thermal conductivity.
Du B, Chen K, Yan H and Reece MJ. *Scripta Materialia vol. 111, 49-53.Elsevier.*

Nanohardness and elastic anisotropy of ZrB2 crystals.
Csandi T, Grasso S, Kovalíkov A, Dusza J and Reece M. *Journal of The European Ceramic Society vol. 36, (1) 239-242.Elsevier.*

Ferroelectric materials for fusion energy applications.
Cain MG, Weaver PM and Reece MJ. *Journal of Materials Chemistry A vol. 4, (27) 10394-10402.Royal Society of Chemistry (Rsc).*

2015

2D Raman mapping and thermal residual stresses in SiC grains of ZrB2SiC ceramic composites.
Stadelmann R, Hughes B, Orlovskaya N, Grasso S and Reece MJ. *Ceramics International vol. 41, (10) 13630-13637. Elsevier.*

Limiting oxidation of ZrB2 by application of an electric field across its oxide scale.
Saunders T, Grasso S and Reece MJ. *Journal of Alloys and Compounds vol. 653, 629-635.Elsevier.*

Ceramic composites from mesoporous silica coated multi-wall carbonnanotubes.
Dillon FC, Moghal J, Kos A, Lozano JG, Miranda L, Porwal H, Reece MJ and Grobert N. *Microporous and Mesoporous Materials vol. 217, 159-166.Elsevier.*

Crystallographic Structure and Ferroelectricity of (AxLa1x)2Ti2O7 (A = Sm and Eu) Solid Solutions with High Tc.
Chen C, Gao Z, Yan H and Reece MJ. *Journal of The American Ceramic Society vol. 99, (2) 523-530.Wiley.*

A High Curie Point Ferroelectric Ceramic Ca3(VO4)2.
Ning H, Yan H and Reece MJ. *Ferroelectrics vol. 487, (1) 94-100.*

GlaCERCo: Glass and Ceramic Composites for High Technology Applications Marie Curie Initial Training Network.
Boccaccini AR, Ferraris M, Reece MJ and Salvo M. *Advances in Applied Ceramics vol. 114, (1_suppl) 1-2.Sage Publications.*

Dielectric relaxation and electrical conductivity in Ca5Nb4TiO17 ceramics.
Li C, Wei X, Fang L, Yan H and Reece MJ. *Ceramics International vol. 41, (8) 9923-9930.Elsevier.*

Dielectric relaxation and electrical conductivity in Ca5Nb4TiO17 ceramics.
Li C, Wei X, Fang L, Yan H and Reece MJ. *Ceramics International vol. 41, (8) 9923-9930.*

Processing and microstructure characterisation of oxide dispersion strengthened Fe14Cr0.4Ti0.25Y2O3 ferritic steels fabricated by spark plasma sintering.
Zhang H, Huang Y, Ning H, Williams CA, London AJ, Dawson K, Hong Z, Gorley MJ, Grovenor CRM, Tatlock GJ, Roberts SG, Reece MJ, Yan H and Grant PS. *Journal of Nuclear Materials vol. 464, 61-68.Elsevier.*

Role of synthesis method on microstructure and mechanical properties of graphene/carbon nanotube toughened Al2O3 nanocomposites.
Yazdani B, Porwal H, Xia Y, Yan H, Reece MJ and Zhu Y. *Ceramics International vol. 41, (8) 9813-9822.Elsevier.*

Role of synthesis method on microstructure and mechanical properties of graphene/carbon nanotube toughened Al2O3 nanocomposites.
Yazdani B, Porwal H, Xia Y, Yan H, Reece MJ and Zhu Y. *Ceramics International vol. 41, (8) 9813-9822.*

Scratch behaviour of graphene alumina nanocomposites.
Porwal H, Kasiarova M, Tatarko P, Grasso S, Dusza J and Reece MJ. *Advances in Applied Ceramics vol. 114, (1_suppl) 34-41.Sage Publications.*

Boron nitride nanosheets reinforced glass matrix composites.
Saggar R, Porwal H, Tatarko P, Dlouhý I and Reece MJ. *Advances in Applied Ceramics vol. 114, (1_suppl) 26-33.Sage Publications.*

Comprehensive study of tellurium based glass ceramics for thermoelectric application.
Cui S, Boussard-plédel C, Calvez L, Rojas F, Chen K, Ning H, Reece MJ, Guizouarn T and Bureau B. *Advances in Applied Ceramics vol. 114, (1_suppl) 42-47.Sage Publications.*

The effect of spark plasma sintering on lithium disilicate glass-ceramics.
Al Mansour F, Karpukhina N, Grasso S, Wilson RM, Reece MJ and Cattell MJ. *Dental Materials vol. 31, (10) e226-e235.Elsevier.*

Highly anisotropic single crystal-like La2Ti2O7 ceramic produced by combined magnetic field alignment and templated grain growth.
Gao Z, Suzuki TS, Grasso S, Sakka Y and Reece MJ. *Journal of The European Ceramic Society vol. 35, (6) 1771-1776.Elsevier.*

45S5 BioglassMWCNT composite: processing and bioactivity.
Porwal H, Estili M, Grnewald A, Grasso S, Detsch R, Hu C, Sakka Y, Boccaccini AR and Reece MJ. *Journal of Materials Science: Materials in Medicine vol. 26, (6).Springer Nature.*

Thermal Diffusivity of SPS Pressed Silicon Powders and the Potential for Using BottomUp Silicon Quantum Dots as a Starting Material.
Ashby SP, Bian T, Ning H, Reece MJ and Chao Y. *Journal of Electronic Materials vol. 44, (6) 1931-1935.*

Observation of Curie transition during spark plasma sintering of ferromagnetic materials.
Mani MK, Viola G, Hall JP, Grasso S and Reece MJ. *Journal of Magnetism and Magnetic Materials vol. 382, 202-205. Elsevier.*

Plasma formation during electric discharge (50V) through conductive powder compacts.
Saunders T, Grasso S and Reece MJ. *Journal of The European Ceramic Society vol. 35, (3) 871-877.Elsevier.*

Nanoindentation and fracture toughness of nanostructured zirconia/multi-walled carbon nanotube composites.
Melk L, Rovira JJR, García-Marro F, Antti M-L, Milsom B, Reece MJ and Anglada M. *Ceramics International vol. 41, (2) 2453-2461.Elsevier.*

Spark plasma sintered bismuth telluride-based thermoelectric materials incorporating dispersed boron carbide.

Williams HR, Ambrosi RM, Chen K, Friedman U, Ning H, Reece MJ, Robbins MC, Simpson K and Stephenson K. *Journal of Alloys and Compounds vol. 626, 368-374.Elsevier.*

Study on properties of tantalum-doped La2Ti2O7 ferroelectric ceramics.
Li C, Khaliq J, Ning H, Wei X, Yan H and Reece MJ. *Journal of Advanced Dielectrics vol. 5, (01).World Scientific Publishing.*

Reduced thermal conductivity by nanoscale intergrowths in perovskite like layered structure La2Ti2O7.
Khaliq J, Li C, Chen K, Shi B, Ye H, Grande AM, Yan H and Reece MJ. *Journal of Applied Physics vol. 117, (7).Aip Publishing.*

Ultra-high temperature spark plasma sintering of -SiC.
Grasso S, Saunders T, Porwal H and Reece M. *Ceramics International vol. 41, (1) 225-230.*

Microwave and terahertz dielectric properties of MgTiO3-CaTiO3 ceramics.
Huang JB, Yang B, Yu CY, Zhang GF, Xue H, Xiong ZX, Viola G, Donnan R, Yan HX and Reece MJ. *Materials Letters vol. 138, 225-227.*

Ferroelectricity in DionJacobson ABiNb 2 O 7 (A = Rb, Cs) compounds.
Chen C, Ning H, Lepadatu S, Cain M, Yan H and Reece MJ. *Journal of Materials Chemistry C vol. 3, (1) 19-22.Royal Society of Chemistry (Rsc).*

Microwave and terahertz dielectric properties of MgTiO3-CaTiO3 ceramics.
Huang JB, Yang B, Yu CY, Zhang GF, Xue H, Xiong ZX, Viola G, Donnan R, Yan HX and Reece MJ. *Materials Letters vol. 138, 225-227.*

Improved Lithium-Storage Capability and Cyclability of Tin Dioxide Confined in Highly Crosslinked Graphene Framework.
Jeong J, Reece MJ and Pyo M. *Journal of The Electrochemical Society vol. 162, (9) a1702-a1707.The Electrochemical Society.*

Enhanced thermoelectric performance of porous magnesium tin silicide prepared using pressure-less spark plasma sintering.
Ning H, Mastrorillo GD, Grasso S, Du B, Mori T, Hu C, Xu Y, Simpson K, Maizza G and Reece MJ. *Journal of Materials Chemistry A vol. 3, (33) 17426-17432.Royal Society of Chemistry (Rsc).*

2014

Ferroelectric and dielectric properties of Nd2xCexTi2O7 ceramics.
Gao ZP, Shi B, Ye H, Yan HX and Reece MJ. *Advances in Applied Ceramics vol. 114, (4) 191-197.Sage Publications.*

Effect of Spark Plasma Sintering on the Structure and Properties of Ti1xZrxNiSn Half-Heusler Alloys.
Downie RA, Popuri SR, Ning H, Reece MJ and Bos J-WG. *Materials vol. 7, (10) 7093-7104.Mdpi.*

Improvement of interfacial bonding in carbon nanotube reinforced Fe50Co composites by NiP coating: Effect on magnetic and mechanical properties.
Mani MK, Viola G, Reece MJ, Hall JP and Evans SL. *Materials Science and Engineering B vol. 188, 94-101.Elsevier.*

Short range polar state transitions and deviation from Rayleigh-type behaviour in Bi0.5Na0.5TiO3-based perovskites.
Viola G, Tan Y, McKinnon RA, Wei X, Yan H and Reece MJ. *Applied Physics Letters vol. 105, (10).*

Three Layer PerovskiteLike Structured Pr3Ti2TaO11 Ferroelectrics with SuperHigh Curie Point.
Chen C, Jiang Q, Wei X, Abrahams I, Yan H and Reece MJ. *Journal of The American Ceramic Society vol. 97, (11) 3624-3630.Wiley.*

Enhancement of thermoelectric properties by atomic-scale percolation in digenite CuxS.
Jiang Q, Yan H, Khaliq J, Shen Y, Simpson K and Reece MJ. *Journal of Materials Chemistry A vol. 2, (25) 9486-9489.*

In-situ neutron diffraction of LaCoO3 perovskite under uniaxial compression. I. Crystal structure analysis and texture development.
Aman A, Chen Y, Lugovy M, Orlovskaya N, Reece MJ, Ma D, Stoica AD and An K. *Journal of Applied Physics vol. 116, (1).*

In-situ neutron diffraction of LaCoO3 perovskite under uniaxial compression. II. Elastic properties.
Lugovy M, Aman A, Chen Y, Orlovskaya N, Kuebler J, Graule T, Reece MJ, Ma D, Stoica AD and An K. *Journal of Applied Physics vol. 116, (1).*

Fabrication of carbon nanotube reinforced iron based magnetic alloy composites by spark plasma sintering.
Mani MK, Viola G, Reece MJ, Hall JP and Evans SL. *Journal of Alloys and Compounds vol. 601, 146-153.Elsevier.*

Toughening effect of multi-walled boron nitride nanotubes and their influence on the sintering behaviour of 3Y-TZP zirconia ceramics.
Tatarko P, Grasso S, Chlup Z, Porwal H, Kaiarov M, Dlouhý I and Reece MJ. *Journal of The European Ceramic Society vol. 34, (7) 1829-1843.*

Processing and bioactivity of 45S5 Bioglass()-graphene nanoplatelets composites.
Porwal H, Grasso S, Cordero-Arias L, Li C, Boccaccini AR and Reece MJ. *J Mater Sci Mater Med vol. 25, (6) 1403-1413.*

Physical, mechanical, and structural properties of highly efficient nanostructured n-and p-silicides for practical thermoelectric applications.
Gelbstein Y, Tunbridge J, Dixon R, Reece MJ, Ning H, Gilchrist R, Summers R, Agote I, Lagos MA, Simpson K, Rouaud C, Feulner P, Rivera S, Torrecillas R, Husband M, Crossley J and Robinson I. *Journal of Electronic Materials vol. 43, (6) 1703-1711.*

Processing and bioactivity of 45S5 Bioglass-graphene nanoplatelets composites.
Porwal H, Grasso S, Cordero-Arias L, Li C, Boccaccini AR and Reece MJ. *Journal of Materials Science: Materials in Medicine vol. 25, (6) 1403-1413.*

Large ZT enhancement in hot forged nanostructured p-type Bi 0.5Sb1.5Te3 bulk alloys.
Jiang Q, Yan H, Khaliq J, Ning H, Grasso S, Simpson K and Reece MJ. *Journal of Materials Chemistry A vol. 2, (16) 5785-5790.*

Joining of C/SiC composites by spark plasma sintering technique.
Rizzo S, Grasso S, Salvo M, Casalegno V, Reece MJ and Ferraris M. *Journal of The European Ceramic Society vol. 34, (4) 903-913.*

Effect of dysprosium substitution on crystal structure and physical properties of multiferroic BiFeO3 ceramics.
Koval V, Skorvanek I, Reece M, Mitoseriu L and Yan H. *Journal of The European Ceramic Society vol. 34, (3) 641-651.*

Utilizing the phonon glass electron crystal concept to improve the thermoelectric properties of combined Yb-stuffed and Te-substituted CoSb 3.
Khaliq J, Jiang Q, Yang J, Simpson K, Yan H and Reece MJ. *Scripta Materialia vol. 72-73, 63-66.*

High field ZnO varistors prepared by spark plasma sintering.
Charles S, Evans J, Reece MJ and Yan HX. *Advances in Applied Ceramics vol. 113, (2) 94-97.*

Role of internal field and exhaustion in ferroelectric switching.
Viola G, Chong KB, Guiu F and Reece MJ. *Journal of Applied Physics vol. 115, (3).Aip Publishing.*

Mechanical and magnetic characterisation of SiC whisker reinforced FeCo alloy composites.
Mani MK, Viola G, Reece MJ, Hall JP and Evans SL. *Materials Science and Engineering A vol. 592, 19-27.Elsevier.*

Effects of dispersion surfactants on the properties of ceramic-carbon nanotube (CNT) nanocomposites.
Inam F, Heaton A, Brown P, Peijs T and Reece MJ. *Ceramics International vol. 40, (1 PART A) 511-516.*

Joining of -SiC by spark plasma sintering.
Grasso S, Tatarko P, Rizzo S, Porwal H, Hu C, Katoh Y, Salvo M, Reece MJ and Ferraris M. *Journal of The European Ceramic Society.*

Toughening effect of multi-walled boron nitride nanotubes and their influence on the sintering behaviour of 3Y-TZP zirconia ceramics.
Tatarko P, Grasso S, Chlup Z, Porwal H, Kaiarov M, Dlouhý I and Reece MJ. *Journal of The European Ceramic Society.*

Reply to the Comment on The Effect of Barium Substitution on the Ferroelectric Properties of Sr2Nb2O7 Ceramics [J. Am. Ceram. Soc., 96 [4] 1163-1170 (2013)].
Gao Z, Shi B, Ye H, Yan H and Reece MJ. *Journal of The American Ceramic Society vol. 97, (2) 662-663.*

Investigation of the Microstructural and Thermoelectric Properties of the (GeTe)0.95(Bi2Te3)0.05 Composition for Thermoelectric Power Generation Applications.
Weintraub L, Davidow J, Tunbridge J, Dixon R, Reece MJ, Ning H, Agote I and Gelbstein Y. *Journal of Nanomaterials vol. 2014,.*

Temperature and frequency dependence of electric field-induced phase transitions in PMN-0.32PT.
Wooldridge J, Stewart M, Vecchini C, Cain MG, Gutmann M and Reece M. *Journal of The American Ceramic Society.*

Boron nitride nanotubes as a reinforcement for brittle matrices.
Tatarko P, Grasso S, Porwal H, Chlup Z, Saggar R, Dlouhý I and Reece MJ. *Journal of The European Ceramic Society.*

Tribological properties of silica-graphene nano-platelet composites.
Porwal H, Tatarko P, Saggar R, Grasso S, Kumar Mani M, Dlouhý I, Dusza J and Reece MJ. *Ceramics International.*

Tough and dense boron carbide obtained by high-pressure (300 MPa) and low-temperature (1600C) spark plasma sintering.
Badica P, Grasso S, Borodianska H, Xie SS, Li P, Tatarko P, Reece MJ, Sakka Y and Vasylkiv O. *Journal of The Ceramic Society of Japan vol. 122, (1424) 271-275.*

In situ reduction of graphene oxide nanoplatelet during spark plasma sintering of a silica matrix composite.
Porwal H, Grasso S, Mani MK and Reece MJ. *Journal of The European Ceramic Society.*

Polymer-derived SiC ceramics from polycarbosilane/boron mixtures densified by SPS.
Bernardo E, Ponsot I, Colombo P, Grasso S, Porwal H and Reece MJ. *Ceramics International.*

Flash Spark Plasma Sintering (FSPS) of Pure ZrB2.
Grasso S, Saunders T, Porwal H, Cedillos-Barraza O, Jayaseelan DD, Lee WE and Reece MJ. *Journal of The American Ceramic Society.*

Indentation Stiffness Analysis of Ferroelectric Thin Films.
Chima-Okereke C, Reece MJ and Cain MG. *Characterisation of Ferroelectric Bulk Materials and Thin Films 221-231. Springer Nature.*

2013

Influence of coated SiC particulates on the mechanical and magnetic behaviour of FeCo alloy composites.
Mani MK, Viola G, Reece MJ, Hall JP and Evans SL. *Journal of Materials Science vol. 49, (6) 2578-2587.Springer Nature.*

Graphene reinforced alumina nano-composites.
Porwal H, Tatarko P, Grasso S, Khaliq J, Dlouhý I and Reece MJ. *Carbon vol. 64, 359-369.*

Review of graphene-ceramic matrix composites.
Porwal H, Grasso S and Reece MJ. *Advances in Applied Ceramics vol. 112, (8) 443-454.*

Effect of grain size on domain structures, dielectric and thermal depoling of Nd-substituted bismuth titanate ceramics.
Viola G, Boon Chong K, Eriksson M, Shen Z, Zeng J, Yin Q, Kan Y, Wang P, Ning H, Zhang H, Fitzpatrick ME, Reece MJ and Yan H. *Applied Physics Letters vol. 103, (18).*

Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets.
Porwal H, Tatarko P, Grasso S, Hu C, Boccaccini AR, Dlouhý I and Reece MJ. *Science and Technology of Advanced Materials vol. 14, (5).*

E-MRS 2012 Fall Meeting, September 1721, Warsaw University of Technology.
Balzsi C, Dusza J, ojkowski W, Reece MJ and Riedel R. *Journal of The European Ceramic Society vol. 33, (12). Elsevier.*

Effects of zinc substitution on the dielectric properties of Ca5Nb4TiO17 microwave ceramics.
Li C, Wei X, Yan H and Reece MJ. *Journal of Advanced Dielectrics vol. 3, (04).World Scientific Publishing.*

Effect of donor dopants cerium and tungsten on the dielectric and electrical properties of high Curie point ferroelectric strontium niobate.
Ning H, Yan H, Gao Z, Wei X and Reece MJ. *Ceramics International vol. 39, (7) 7669-7675.*

Dielectric relaxation, lattice dynamics and polarization mechanisms in Bi0.5Na0.5TiO3-based lead-free ceramics.
Viola G, Ning H, Wei X, Deluca M, Adomkevicius A, Khaliq J, John Reece M and Yan H. *Journal of Applied Physics vol. 114, (1).*

Wear resistance of Al2O3-CNT ceramic nanocomposites at room and high temperatures.
Puchy V, Hvizdos P, Dusza J, Kovac F, Inam F and Reece MJ. *Ceramics International vol. 39, (5) 5821-5826.*

Low-temperature spark plasma sintering of pure nano WC powder.
Grasso S, Poetschke J, Richter V, Maizza G, Sakka Y and Reece MJ. *Journal of The American Ceramic Society vol. 96, (6) 1702-1705.*

Microwave dielectric properties of CaO-La2O3-Nb 2O5-TiO2 ceramics.
Li C, Wei X, Yan H, Reece MJ and Ye H. *Journal of Materials Science: Materials in Electronics vol. 24, (6) 1947-1954.*

Piezoelectric and dielectric properties of Ce substituted La2Ti2O7 ceramics.
Gao ZP, Yan HX, Ning HP, Wilson R, Wei XY, Shi B, Ye H and Reece MJ. *Journal of The European Ceramic Society vol. 33, (5) 1001-1008.*

Highly transparent -alumina obtained by low cost high pressure SPS.
Grasso S, Yoshida H, Porwal H, Sakka Y and Reece M. *Ceramics International vol. 39, (3) 3243-3248.*

The effect of barium substitution on the ferroelectric properties of Sr2 Nb2 O7 Ceramics.
Gao Z, Ning H, Chen C, Wilson R, Shi B, Ye H, Yan H and Reece MJ. *Journal of The American Ceramic Society vol. 96, (4) 1163-1170.*

Ultra low thermal conductivity of disordered layered p-type bismuth telluride.
Grasso S, Tsujii N, Jiang Q, Khaliq J, Maruyama S, Miranda M, Simpson K, Mori T and Reece MJ. *Journal of Materials Chemistry C vol. 1, (12) 2362-2367.*

Microstructure and high-temperature oxidation behavior of Ti3AlC 2/W composites.
Cui B, Zapata-Solvas E, Reece MJ, Wang CA and Lee WE. *Journal of The American Ceramic Society vol. 96, (2) 584-591.*

Reverse boundary layer capacitor model in glass/ceramic composites for energy storage applications.
Wei X, Yan H, Wang T, Hu Q, Viola G, Grasso S, Jiang Q, Jin L, Xu Z and Reece MJ. *Journal of Applied Physics vol. 113, (2).*

Low temperature spark plasma sintering of 45S5 Bioglass.
Grasso S, Chinnam RK, Porwal H, Boccaccini AR and Reece MJ. *Journal of Non-Crystalline Solids vol. 362, (1) 25-29.*

Metal matrix composite fuel for space radioisotope energy sources.
Williams HR, Ning H, Reece MJ, Ambrosi RM, Bannister NP and Stephenson K. *Journal of Nuclear Materials vol. 433, (1-3) 116-123.*

Wear resistance of Al2O3-CNT ceramic nanocomposites at room and high temperatures.
Puchy V, Hvizdos P, Dusza J, Kovac F, Inam F and Reece MJ. *Ceramics International.*

Effect of donor dopants cerium and tungsten on the dielectric and electrical properties of high Curie point ferroelectric strontium niobate.
Ning H, Yan H, Gao Z, Wei X and Reece MJ. *Ceramics International.*

Low-temperature spark plasma sintering of pure nano wc powder.
Grasso S, Poetschke J, Richter V, Maizza G, Sakka Y and Reece MJ. *Journal of The American Ceramic Society.*

Ferroelectricity of Pr2Ti2O7 ceramics with super high Curie point.
Gao ZP, Yan HX, Ning HP and Reece MJ. *Advances in Applied Ceramics vol. 112, (2) 69-74.*

Effects of dispersion surfactants on the properties of ceramic-carbon nanotube (CNT) nanocomposites.
Inam F, Heaton A, Brown P, Peijs T and Reece MJ. *Ceramics International.*

Graphene reinforced alumina nano-composites.
Porwal H, Tatarko P, Grasso S, Khaliq J, Dlouhý I and Reece MJ. *Carbon.*

Active ferroelectricity in nanostructured multiferroic BiFeO3 bulk ceramics.
Jiang Q, Ning H, Zhang Q, Cain M, Reece MJ and Yan H. *Journal of Materials Chemistry C vol. 1, (36) 5628-5631.*

Effect of dysprosium substitution on crystal structure and physical properties of multiferroic BiFeO3 ceramics.
Koval V, Skorvanek I, Reece M, Mitoseriu L and Yan H. *Journal of The European Ceramic Society.*

Joining of C/SiC composites by spark plasma sintering technique.
Rizzo S, Grasso S, Salvo M, Casalegno V, Reece MJ and Ferraris M. *Journal of The European Ceramic Society.*

Utilizing the phonon glass electron crystal concept to improve the thermoelectric properties of combined Yb-stuffed and Te-substituted CoSb3.
Khaliq J, Jiang Q, Yang J, Simpson K, Yan H and Reece MJ. *Scripta Materialia.*

Contribution of piezoelectric effect, electrostriction and ferroelectric/ferroelastic switching to strain-electric field response of dielectrics.
Viola G, Saunders T, Wei X, Chong KB, Luo H, Reece MJ and Yan H. *Journal of Advanced Dielectrics vol. 3, (01). World Scientific Publishing.*

2012

The effect of carbon nanotubes on the sintering behaviour of zirconia.
Milsom B, Viola G, Gao Z, Inam F, Peijs T and Reece MJ. *Journal of The European Ceramic Society vol. 32, (16) 4149-4156.*

Microwave dielectric properties of La 3Ti 2TaO 11 ceramics with perovskite-like layered structure.
Li C, Wei X, Yan H and Reece MJ. *Journal of The European Ceramic Society vol. 32, (16) 4015-4020.*

Toughening of zirconia/alumina composites by the addition of graphene platelets.
Liu J, Yan H, Reece MJ and Jiang K. *Journal of The European Ceramic Society vol. 32, (16) 4185-4193.*

Ferroelectric ceramics with enhanced remnant polarization by ordered coalescence of nano-crystals.
Shen Z, Yan H, Grner D, Belova LM, Sakamoto Y, Hu J, Nan CW, Hche T and Reece MJ. *Journal of Materials Chemistry vol. 22, (44) 23547-23552.*

Structural, dielectric, magnetic, and nuclear magnetic resonance studies of multiferroic Y-type hexaferrites.
Khanduri H, Chandra Dimri M, Kooskora H, Heinmaa I, Viola G, Ning H, Reece MJ, Krustok J and Stern R. *Journal of Applied Physics vol. 112, (7).*

Reversibility in electric field-induced transitions and energy storage properties of bismuth-based perovskite ceramics.
Viola G, Ning H, Reece MJ, Wilson R, Correia TM, Weaver P, Cain MG and Yan H. *Journal of Physics D: Applied Physics vol. 45, (35).*

Processing and characterization of high-density zirconia-carbon nanotube composites.
Chintapalli RK, Marro FG, Milsom B, Reece M and Anglada M. *Materials Science and Engineering: A vol. 549, 50-59.*

Cobalt-based orthopaedic alloys: Relationship between forming route, microstructure and tribological performance.
Patel B, Favaro G, Inam F, Reece MJ, Angadji A, Bonfield W, Huang J and Edirisinghe M. *Materials Science and Engineering C vol. 32, (5) 1222-1229.*

Shortened carbon nanotubes and their influence on the electrical properties of polymer nanocomposites.
Inam F, Reece MJ and Peijs T. *Journal of Composite Materials vol. 46, (11) 1313-1322.*

Microstructural evolution during high-temperature oxidation of spark plasma sintered Ti 2AlN ceramics.
Cui B, Sa R, Jayaseelan DD, Inam F, Reece MJ and Lee WE. *Acta Materialia vol. 60, (3) 1079-1092.*

From the Editor.
Mike R. *Advances in Applied Ceramics vol. 111, (1-2) 1-1.Sage Publications.*

Dynamics of ferroelectric switching of [H3CNH3] 5[Bi2Br11].
Wojta M and Reece MJ. *Journal of Applied Physics vol. 111, (2).*

Spherical instrumented indentation of porous nanocrystalline zirconia.
Chintapalli RK, Jimenez-Pique E, Marro FG, Yan H, Reece M and Anglada M. *Journal of The European Ceramic Society vol. 32, (1) 123-132.*

Phase stability and rapid consolidation of hydroxyapatite-zirconia nano-coprecipitates made using continuous hydrothermal flow synthesis.
Chaudhry AA, Yan H, Viola G, Reece MJ, Knowles JC, Gong K, Rehman I and Darr JA. *Journal of Biomaterials Applications vol. 27, (1) 79-90.*

Highly transparent -alumina obtained by low cost high pressure SPS.
Grasso S, Yoshida H, Porwal H, Sakka Y and Reece M. *Ceramics International.*

Microstructure and High-temperature Oxidation Behavior of Ti 3AlC 2/W Composites.
Cui B, Zapata-Solvas E, Reece MJ, Wang C-A and Lee WE. *Journal of The American Ceramic Society.*

Piezoelectric and dielectric properties of Ce substituted La2Ti2O7 ceramics.
Gao ZP, Yan HX, Ning HP, Wilson R, Wei XY, Shi B, Ye H and Reece MJ. *Journal of The European Ceramic Society.*

The Effect of Barium Substitution on the Ferroelectric Properties of Sr2Nb2O7 Ceramics.
Gao Z, Ning H, Chen C, Wilson R, Shi B, Ye H, Yan H and Reece MJ. *Journal of The American Ceramic Society.*

Kinetics of Densification and Grain Growth of Pure Tungsten During Spark Plasma Sintering.
Gao Z, Viola G, Milsom B, Whitaker I, Yan H and Reece MJ. *Metallurgical and Materials Transactions B-Process Metallurgy and Materials Processing Science vol. 43, (6) 1608-1614.*

Structural and magnetic characterization of spark plasma sintered Fe-50Co alloys.
Mani MK, Viola G, Reece MJ, Hall JP and Evans SL. *Mrs Advances vol. 1516, (1) 201-207.Springer Nature.*

2011

The production of advanced fine-grained alumina by carbon nanotube addition.
Inam F, Peijs T and Reece MJ. *Journal of The European Ceramic Society vol. 31, (15) 2853-2859.*

Ferroelectric domain structures and electrical properties of fine-grained lead-free sodium potassium niobate ceramics.
Eriksson M, Yan H, Viola G, Ning H, Gruner D, Nygren M, Reece MJ and Shen Z. *Journal of The American Ceramic Society vol. 94, (10) 3391-3396.*

Magneto-electric properties of multiferroic Pb(Zr0.52Ti 0.48)O3-NiFe2O4 nanoceramic composites.
Jiang Q, Liu F, Yan H, Ning H, Libor Z, Zhang Q, Cain M and Reece MJ. *Journal of The American Ceramic Society vol. 94, (8) 2311-2314.*

Carbon nanotubes: Do they toughen brittle matrices?.
Cho J, Inam F, Reece MJ, Chlup Z, Dlouhy I, Shaffer MSP and Boccaccini AR. *Journal of Materials Science vol. 46, (14) 4770-4779.*

Mechanism of chromium oxide formation in cobalt-chromium-molybdenum (F75) alloys prepared using spark plasma sintering.
Patel B, Inam F, Reece MJ, Edirisinghe M, Bonfield W, Huang J and Angadji A. *Advanced Engineering Materials vol. 13, (5) 411-417.*

High-strength nanograined and translucent hydroxyapatite monoliths via continuous hydrothermal synthesis and optimized spark plasma sintering.
Chaudhry AA, Yan HX, Gong KN, Inam F, Viola G, Reece MJ, Goodall JBM, Rehman IU, McNeil-Watson FK, Corbett JCW, Knowles JC and Darr JA. *Acta Biomater vol. 7, (2) 791-799.*

THE CONTRIBUTION OF ELECTRICAL CONDUCTIVITY, DIELECTRIC PERMITTIVITY AND DOMAIN SWITCHING IN FERROELECTRIC HYSTERESIS LOOPS.
Yan H, Inam F, Viola G, Ning H, Zhang H, Jiang Q, Zeng T, Gao Z and Reece MJ. *J. Adv Dielectrics vol. 1, 107-118.*
Yao X.

The elastic properties of ferroelectric thin films measured using nanoindentation.
Chima-Okereke C, Roberts WL, Bushby AJ and Reece MJ. *Springer Series in Materials Science vol. 140, (1) 543-572.*

2010

Polarization dynamics and non-equilibrium processes in ferroelectric switching.
Vopson MM, Weaver PM, Cain MG, Reece MJ and Chong KB. *Proceedings of The 2010 IEEE International Symposium On The Applications of Ferroelectrics, Isaf 2010, Co-Located With The 10th.*

A novel route for processing cobalt-chromium-molybdenum orthopaedic alloys.
Patel B, Inam F, Reece M, Edirisinghe M, Bonfield W, Huang J and Angadji A. *Journal of The Royal Society Interface vol. 7, (52) 1641-1645.*

Effect of point defects on thermal depoling behavior of bismuth layer-structured ferroelectric ceramics.
Zeng T, Yan HX and Reece MJ. *J Appl Phys vol. 108, (9).*

Microstructure and electrical properties of Aurivillius phase (CaBi2Nb2O9)(1-x)(BaBi2Nb2O9)(x) solid solution.
Zhang HT, Yan HX and Reece MJ. *J Appl Phys vol. 108, (1).*

Physics with the KLOE-2 experiment at the upgraded DANE.
Amelino-Camelia G, Archilli F, Babusci D, Badoni D, Bencivenni G, Bernabeu J, Bertlmann RA, Boito DR, Bini C, Bloise C, Bocci V, Bossi F, Branchini P, Budano A, Bulychjev SA, Campana P, Capon G, Ceradini F, Ciambrone P, Czerwinski E, Czyz H, D Ambrosio G, Dané E, De Lucia E, De Robertis G, De Santis A, De Simone P, De Zorzi G, Di Domenico A and Di Donato C. *European Physical Journal C vol. 68, (3-4) 619-681.Springer Nature.*

Highly conductive low nickel content nano-composite dense cermets from nano-powders made via a continuous hydrothermal synthesis route.
Weng XL, Brett D, Yufit V, Shearing P, Brandon N, Reece M, Yan HX, Tighe C and Darr JA. *Solid State Ionics vol. 181, (17-18) 827-834.*

The sintering and grain growth behaviour of ceramic-carbon nanotube nanocomposites.
Inam F, Yan HX, Peijs T and Reece MJ. *Compos Sci Technol vol. 70, (6) 947-952.*

High temperature lead-free relaxor ferroelectric: Intergrowth Aurivillius phase BaBi2Nb2O9-Bi4Ti 3O12 ceramics.
Zhang H, Yan H and Reece MJ. *Journal of Applied Physics vol. 107, (10).*

Piezoelectric Strontium Niobate and Calcium Niobate Ceramics with Super-High Curie Points.
Ning HP, Yan HX and Reece MJ. *J Am Ceram Soc vol. 93, (5) 1409-1413.*

Laser melting of spark plasma-sintered zirconium carbide: Thermophysical properties of a generation IV very high-temperature reactor material.
Jackson HF, Jayaseelan DD, Lee WE, Reece MJ, Inam F, Manara D, Casoni CP, De Bruycker F and Boboridis K. *International Journal of Applied Ceramic Technology vol. 7, (3) 316-326.*

Structural and chemical stability of multiwall carbon nanotubes in sintered ceramic nanocomposite.
Inam F, Yan H, Reece MJ and Peijs T. *Adv Appl Ceram vol. 109, (4) 240-245.*

Textured high Curie point piezoelectric ceramics prepared by spark plasma sintering.
Yan HX, Ning HP, Zhang HT and Reece MJ. *Adv Appl Ceram vol. 109, (3) 139-142.*

Low temperature consolidated lead-free ferroelectric niobate ceramics with improved electrical properties.
Eriksson M, Yan HX, Nygren M, Reece MJ and Shen ZJ. *J Mater Res vol. 25, (2) 240-247.*

Stability of Nanocrystalline Spark Plasma Sintered 3Y-TZP.
Chintapalli R, Mestra A, Marro FG, Yan H, Reece M and Anglada M. *Materials vol. 3, (2) 800-814.*

Electrically conductive alumina-carbon nanocomposites prepared by Spark Plasma Sintering.
Inam F, Yan HX, Jayaseelan DD, Peijs T and Reece MJ. *Journal of The European Ceramic Society vol. 30, (2) 153-157.*

2009

Hot pressed and spark plasma sintered zirconia/carbon nanofiber composites.
Dusza J, Blugan G, Morgiel J, Kuebler J, Inam F, Peijs T, Reece MJ and Puchy V. *Journal of The European Ceramic Society vol. 29, (15) 3177-3184.*

Degradation resistance of 3Y-TZP ceramics sintered using spark plasma sintering.
Chintapalli R, Marro FG, Valle JA, Yan H, Reece MJ and Anglada M. *IOP Conference Series: Materials Science and Engineering vol. 5,.*

Piezoelectric and Ferroelectric Properties of Bismuth Tungstate Ceramics Fabricated by Spark Plasma Sintering.
Zeng T, Yan HX, Ning HP, Zeng JT and Reece MJ. *J Am Ceram Soc vol. 92, (12) 3108-3110.*

Effect of composition on rate dependence of ferroelastic/ferroelectric switching in perovskite ceramics.
Viola G, Verbylo D, Orlovskaya N and Reece MJ. *Mater Sci Tech-Lond vol. 25, (11) 1312-1315.*

Piezoelectric Ceramics with Super-High Curie Points.
Yan HX, Ning HP, Kan YM, Wang PL and Reece MJ. *J Am Ceram Soc vol. 92, (10) 2270-2275.*

The grain size effect on the properties of Aurivillius phase Bi3.15Nd0.85Ti3O12 ferroelectric ceramics.
Zhang H, Yan H, Ning H, Reece MJ, Eriksson M, Shen Z, Kan Y and Wang P. *Nanotechnology vol. 20, (38).*

The grain size effect on the properties of Aurivillius phase Bi 3.15Nd0.85Ti3O12 ferroelectric ceramics.
Zhang H, Yan H, Ning H, Reece MJ, Eriksson M, Shen Z, Kan Y and Wang P. *Nanotechnology vol. 20, (38).*

Fabrication and properties of dense ex situ magnesium diboride bulk material synthesized using spark plasma sintering.
Dancer CEJ, Prabhakaran D, Basoglu M, Yanmaz E, Yan H, Reece M, Todd RI and Grovenor CRM. *Supercond Sci Tech vol. 22, (9).*

The effect of Nd substitution on the electrical properties of Bi3NbTiO9 Aurivillius phase ceramics.
Zhang HT, Yan HX and Reece MJ. *J Appl Phys vol. 106, (4).*

High-temperature ferroelectric phase transition observed in multiferroic Bi0.91La0.05Tb0.04FeO3.
Jiang QH, Liu FT, Nan CW, Lin YH, Reece MJ, Yan HX, Ning HP and Shen ZJ. *Applied Physics Letters vol. 95, (1).*

Dual ferroelasticity of lanthanum chromium-based multicomponent solid solution perovskite.
Orlovskaya N, Lugovy M, Verbylo D and Reece MJ. *Scripta Materialia vol. 60, (9) 783-786.*

2008

Effect of a site substitution on the properties of CaBi2Nb 2O9 ferroelectric ceramics.
Zhang X, Yan H and Reece MJ. *Journal of The American Ceramic Society vol. 91, (9) 2928-2932.*

Room-temperature creep of LaCoO3 -based perovskites: Equilibrium strain under compression.
Lugovy M, Slyunyayev V, Orlovskaya N, Verbylo D and Reece MJ. *Physical Review B - Condensed Matter and Materials Physics vol. 78, (2).*

Dimethylformamide: an effective dispersant for making ceramic-carbon nanotube composites.
Inam F, Yan H, Reece MJ and Peijs T. *Nanotechnology vol. 19, (19).*

Thermal activation of ferroelectric switching.
Chong KB, Guiu F and Reece MJ. *Journal of Applied Physics vol. 103, (1).*

Luminescence of Sr2SiO4-xN2x/3 : Eu2+ phosphors prepared by spark plasma sintering.
Sohn KS, Kwak JH, Jung YS, Yan HX and Reece MJ. *J Electrochem Soc vol. 155, (2) J58-J61.*

2007

Dielectric, piezoelectric, and ferroelectric properties of grain-orientated Bi3.25La0.75Ti3O12 ceramics.
Liu J, Shen Z, Yan H, Reece MJ, Kan Y and Wang P. *J Appl Phys vol. 102, (10).*

Microstructure and electrical properties of Si3N4-TiN composites sintered by hot pressing and spark plasma sintering.
Guo Z, Blugan G, Kirchner R, Reece M, Graule T and Kuebler J. *Ceramics International vol. 33, (7) 1223-1229.*

The influence of the grain boundary phase on the mechanical properties of Si3N4-MoSi2 composites.
Guo Z, Parlinska-Wojtan M, Blugan G, Graule T, Reece MJ and Kuebler J. *Acta Materialia vol. 55, (8) 2875-2884.*

Enhanced ferroelectric loop asymmetry of lead zirconate titanate thin films under nanoindentation.
Koval V, Reece MJ and Bushby AJ. *Journal of Applied Physics vol. 101, (2).*

The effect of different sintering additives on the electrical and oxidation properties of Si3N4-MoSi2 composites.
Guo Z, Blugan G, Graule T, Reece M and Kuebler J. *Journal of The European Ceramic Society vol. 27, (5) 2153-2161.*

2006

Effect of texture on dielectric properties and thermal depoling of Bi4Ti3O12 ferroelectric ceramics.
Yan HX, Reece MJ, Liu J, Shen ZJ, Kan YM and Wang PL. *J Appl Phys vol. 100, (7).*

B-site donor and acceptor doped Aurivillius phase Bi3NbTiO9 ceramics.
Yan HX, Zhang HT, Zhang Z, Ubic R and Reece MJ. *J Eur Ceram Soc vol. 26, (13) 2785-2792.*

Orientation dependence of dielectric and relaxor behaviour in Aurivillius phase BaBi2Nb2O9 ceramics prepared by spark plasma sintering.
Yan HX, Zhang HT, Ubic R, Reece M, Liu J and Shen ZJ. *J Mater Sci-Mater El vol. 17, (9) 657-661.*

Inelastic deformation behavior of la 0.6Sr 0.4FeO 3 perovskite.
Orlovskaya N, Anderson H, Brodnikovskyy M, Lugovy M and Reece MJ. *Journal of Applied Physics vol. 100, (2).*

Fractographic montage for a Si3N4-SiC nanocomposite.
Kaiarov M, Dusza J, Hnatko M, Šajgalík P and Reece MJ. *Journal of The American Ceramic Society vol. 89, (5) 1752-1755.*

Experimental, analytical, and finite element analyses of nanoindentation of multilayer PZT/Pt/SiO2 thin film systems on silicon wafers.
Chima-Okereke C, Bushby AJ, Reece MJ, Whatmore RW and Zhang Q. *Journal of Materials Research vol. 21, (2) 409-419.*

Printing gold nanoparticles with an electrohydrodynamic direct-write device.
Samarasinghe SR, Pastoriza-Santos I, Edirisinghe MJ, Reece MJ and Liz-Marzn LM. *Gold Bulletin vol. 39, (2) 48-53.*

2005

Thermal depoling of high Curie point Aurivillius phase ferroelectric ceramics.
Yan HX, Zhang HT, Reece MJ and Dong XL. *Appl Phys Lett vol. 87, (8).*

A LeadFree HighCuriePoint Ferroelectric Ceramic, CaBi2Nb2O9.
Yan H, Zhang H, Ubic R, Reece MJ, Liu J, Shen Z and Zhang Z. *Cheminform vol. 36, (28) no-no.Wiley.*

Enhanced creep resistant silicon-nitride-based nanocomposite.
Dusza J, Kovalík J, Hvizdo P, Šajgalik P, Hnatko M and Reece MJ. *Journal of The American Ceramic Society vol. 88, (6) 1500-1503.*

A lead-free high-Curie-point ferroelectric ceramic, CaBi2Nb2O9.
Yan HX, Zhang HT, Ubic R, Reece MJ, Liu J, Shen ZJ and Zhang Z. *Adv Mater vol. 17, (10) 1261-+.*

Ferroelectric/ferroelastic behavior and piezoelectric response of lead zirconate titanate thin films under nanoindentation.
Koval V, Reece MJ and Bushby AJ. *Journal of Applied Physics vol. 97, (7).*

2004

Ferroelectric hysteresis loops of (Pb, Ca)TiO3 thin films under spherical indentation.
Alguer M, Calzada ML, Bushby AJ and Reece MJ. *Applied Physics Letters vol. 85, (11) 2023-2025.*

Creep behavior of a carbon-derived Si3N4/SiC nanocomposite.
Dusza J, Kovalik J, Hvizdos P, Sajgalik P, Hnatko M and Reece M. *Journal of The European Ceramic Society vol. 24, (12) 3307-3315.*

Nanoindentation of multilayer PZT/Pt/SiO2 thin film systems on silicon wafers for MEMS applications.
Chima-Okereke C, Reece MJ, Bushby AJ, Whatmore RW and Zhang Q. *Mrs Advances vol. 841, (1).Springer Nature.*

2003

Crack extension force and rate of mechanical work of fracture in linear dielectrics and piezoelectrics.
Guiu F, Alguer M and Reece MJ. *Philosophical Magazine vol. 83, (7) 873-888.*

2002

Anelastic deformation of Pb(Zr,Ti)O3 thin films by non-180 ferroelectric domain wall movements during nanoindentation.
Alguer M, Bushby AJ, Reece MJ and Seifert A. *Applied Physics Letters vol. 81, (3) 421-423.*

Ferroelasticity and hysteresis in LaCoO3 based perovskites.
Orlovskaya N, Gogotsi Y, Reece M, Cheng B and Ion Gibson. *Acta Materialia vol. 50, (4) 715-723.*

Toughening produced by crack-tip-stress-induced domain reorientation in ferroelectric and/or ferroelastic materials.
Reece MJ and Guiu F. *Philosophical Magazine a: Physics of Condensed Matter, Structure, Defects and Mechanical Properties vol. 82, (1) 29-38.*

2001

Stress-induced depolarization of (Pb, La)TiO3 ferroelectric thin films by nanoindentation.
Alguero M, Bushby AJ, Reece MJ, Poyato R, Ricote J, Calzada ML and Pardo L. *Appl Phys Lett vol. 79, (23) 3830-3832.*

Mechanical and electromechanical properties of PZT sol-gel thin films measured by nanoindentation.
Alguer M, Bushby AJ, Hvizdos P, Reece MJ, Whatmore RW and Zhang Q. *Integrated Ferroelectrics vol. 41, (1-4) 53-62.*

Direct measurement of mechanical properties of (Pb,La)TiO3 ferroelectric thin films using nanoindentation techniques.
Alguer M, Bushby AJ and Reece MJ. *Journal of Materials Research vol. 16, (4) 993-1002.*

Fatigue behaviour of mullite studied by the indentation flexure method.
Hvizdo P, Reece MJ and Torrecillas R. *Journal of The European Ceramic Society vol. 21, (1) 53-61.*

2000

Fracture of PZT piezoelectric ceramics under compression-compression loading.
Cheng BL, Reece MJ, Guiu F and Alguero M. *Scripta Mater vol. 42, (4) 353-357.*

Influence of grain size on the indentation-fatigue behavior of alumina.
Li M and Reece MJ. *Journal of The American Ceramic Society vol. 83, (4) 967-970.*

1999

Crack growth during poling and polarisation reversal in commercial piezoceramics.
Alguero M, Cheng BL, Gibson IR, Guiu F and Reece MJ. *Bol Soc Esp Ceram V vol. 38, (6) 593-597.*

The characterisation of ferroelectric thin films using nanoindentation.
Alguero M, Bushby AJ, Cheng BL, Guiu F, Reece MJ, Calzada ML and Pardo L. *Bol Soc Esp Ceram V vol. 38, (5) 446-450.*

1998

Electrokinetic behavior and stability of silicon carbide nanoparticulate dispersions.
Tartaj P, Reece M and Moya JS. *Journal of The American Ceramic Society vol. 81, (2) 389-394.*

Cyclic fatigue crack growth behaviour in -(Si-AI-O-N) at ambient and elevated temperatures.
Zhan GD, Reece MJ, Ming LI and Calderon-Moreno JM. *Journal of Materials Science vol. 33, (15) 3867-3874.*

Subcritical crack propagation under cyclic and static loading in mullite and mullite-zirconia.
Davies CKL, Guiu F, Li M, Reece MJ and Torrecillas R. *Journal of The European Ceramic Society vol. 18, (3) 221-227.*

1997

Anisotropic deformation and fracture of indented PZT.
Calderon-Moreno JM, Guiu F, Reece MJ and Sohn KS. *Key Engineering Materials vol. 132-136, 551-554.*

Effect of porosity and grain size on the microwave dielectric properties of sintered alumina.
Penn SJ, Alford NMN, Templeton A, Wang X, Xu M, Reece M and Schrapel K. *Journal of The American Ceramic Society vol. 80, (7) 1885-1888.*

Growth of indentation cracks in poled and unpoled PZT.
Guiu F, Hahn BS, Lee HL and Reece MJ. *Journal of The European Ceramic Society vol. 17, (4) 505-512.*

1996

Si3N4-Al2O3/Si3N4-Y2O3 couple diffusion system.
Castanho SM, Moya JS, Blugan GS and Reece MJ. *Acta Mater vol. 44, (3) 1001-1010.*

High-temperature Fatigue of a Gas-Pressure-Sintered Silicon Nitride.
Wang M, Li M, Bushby AJ, Guiu F, Reece MJ and Sammur MFR. *Journal of The European Ceramic Society vol. 16, (9) 1009-1020.*

Structural development and properties of SiC-Si3N4 nano/microcomposites.
Šajgalík P, Dusza J, Hofer F, Warbichler P, Reece M, Boden G and Koznkov J. *Journal of Materials Science Letters vol. 15, (1) 72-76.Springer Nature.*

Microstructures and dielectric properties of ferroelectric glass-ceramics.
Reece MJ, Worrell CA, Hill GJ and Morrell R. *Journal of The American Ceramic Society vol. 79, (1) 17-26.*

1994

Determination of Stress Distribution in Fibre Bridged Cracks in Ceramic Matrix Composites.
Bollet F, Galiotis C and Reece MJ. *Advanced Composites Letters vol. 3, (4).Sage Publications.*

1992

ROLE OF CRACK-BRIDGING LIGAMENTS IN THE CYCLIC FATIGUE BEHAVIOR OF ALUMINA.
GUIU F, LI M and REECE MJ. *J Am Ceram Soc vol. 75, (11) 2976-2984.*

Preparation of hard particle powders for examination in the transmission electron microscope.
Boswell E, Reece MJ and Gee MG. *Journal of Microscopy vol. 167, (1) 123-126.Wiley.*

Phase transformation around indentations in zirconia.
Reece MJ, Tetlow PL and Galiotis C. *Journal of Materials Science Letters vol. 11, (9) 575-577.*

1991

Analysis of Si3N4+-Si3N4 whisker ceramics.
Dusza J, Sajgalik D and Reece M. *Journal of Materials Science vol. 26, (24) 6782-6788.Springer Nature.*

Electron microscope study of non-stoichiometric titania.
Reece M and Morrell R. *Journal of Materials Science vol. 26, (20) 5566-5574.Springer Nature.*

Cyclic fatigue of ceramics.
Guiu F, Reece MJ and Vaughan DAJ. *Journal of Materials Science vol. 26, (12) 3275-3286.*

INDENTATION FATIGUE OF HIGH-PURITY ALUMINA IN FLUID ENVIRONMENTS.
REECE M and GUIU F. *J Am Ceram Soc vol. 74, (1) 148-154.*

1990

REPEATED INDENTATION METHOD FOR STUDYING CYCLIC FATIGUE IN CERAMICS.
REECE M and GUIU F. *J Am Ceram Soc vol. 73, (4) 1004-1013.*

1989

Cyclic Fatigue Crack Propagation in Alumina under Direct TensionCompression Loading.
Reece MJ, Guiu F and Sammur MFR. *Journal of The American Ceramic Society vol. 72, (2) 348-352.*

1988

Observations of the influence of ion-bombardment on the microstructure of synthetic and natural ferrite crystals.
Reece MJ and Barber DJ. *Journal of Materials Science Letters vol. 7, (6) 649-653.Springer Nature.*

1987

Electron microscopy of second phases in manganese-zinc ferrite crystals.
Reece MJ and Barber DJ. *Journal of Materials Science vol. 22, (7) 2447-2456.Springer Nature.*

1984

Slip systems in manganese zinc ferrite crystals.
Callahan SL, Tressler RE, Johnson DW and Reece MJ. *Deformation of Ceramic Materials II 177-186.*