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### 2021

#### **Photoelectrochemical imaging system with high spatiotemporal resolution for visualizing dynamic cellular responses.**

Zhou B, Das A, Zhong M, Guo Q, Zhang DW, Hing KA, Sobrido AJ, Titirici MM and Krause S. *Biosensors and Bioelectronics* vol. 180,.

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#### **Ammonia Gas Sensor Response of a Vertical Zinc Oxide Nanorod-Gold Junction Diode at Room Temperature.**

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### 2019

#### **InGaN as a substrate for AC photoelectrochemical imaging.**

Zhou B, Das A, Kappers M, Oliver R, Humphreys C and Krause S. *Sensors.Mdpi*.

#### **Modulated light-activated electrochemistry at silicon functionalized with metal-organic frameworks towards addressable DNA chips.**

Wang J, Yang Z, Chen W, Du L, Jiao B, Krause S, Wang P, Wei Q, Zhang D-W and Wu C. *Biosensors and Bioelectronics* vol. 146, 111750-111750.Elsevier.

#### **Flexible and Stretchable Self-Powered Multi-Sensors Based on the N-Type Thermoelectric Response of Polyurethane/Na<sub>x</sub>(Ni-ett)<sub>n</sub> Composites.**

Wan K, Taroni PJ, Liu Z, Liu Y, Tu Y, Santagiuliana G, Hsia I, Zhang H, Fenwick O, Krause S, Baxendale M, Schroeder BC and Bilotti E. *Advanced Electronic Materials* 1900582-1900582.Wiley.

#### **Peptide Cross-Linked Poly(2-oxazoline) as a Sensor Material for the Detection of Proteases with a Quartz Crystal Microbalance.**

Ahmad N, Colak B, Gibbs MJ, Zhang D-W, Gautrot JE, Watkinson M, Becer CR and Krause S. *Biomacromolecules* vol. 20, (7) 2506-2514.

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#### **Peptide cross-linked poly (Ethylene glycol) hydrogel films as biosensor coatings for the detection of collagenase.**

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#### **Photoelectrochemical Imaging Using Carbon Dots (CDs) Derived from Chitosan.**

Zhang D, Papaioannou N, Titirici M-M and Krause S. *Conference Proceedings* vol. 2, (13).

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**Collagenase Biosensor Based on the Degradation of Peptide Cross-Linked Poly(Ethylene Glycol) Hydrogel Films.**

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**Light-Addressable Potentiometric Sensors using ZnO Nanorods as the Sensor Substrate for Bioanalytical Applications.**

TU Y, AHMAD N, BRISCOE J, ZHANG D and KRAUSE S. *Analytical Chemistry.American Chemical Society*.

**Surface modification and construction of LAPS towards biosensing applications.**

Wang J, Du L, Krause S, Wu C and Wang P. *Sensors and Actuators, B: Chemical vol. 265, 161-173*.

**Photoelectrochemical response of carbon dots (CDs) derived from chitosan and their use in electrochemical imaging.**

ZHANG D, PAPAIOANNOU N, David NM, LUO H, GAO H, Tanase LC, Degousee T, Samori P, SAPELKIN A, FENWICK O, TITIRICI M and KRAUSE SK. *Materials Horizons.Rsc*.

**Control of oxygen vacancies in ZnO nanorods by annealing and their influence on ZnO/PEDOT:PSS diode behaviour.**

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Wu F, Campos I, Zhang D and KRAUSE SK. *Proceedings of The Royal Society a: Mathematical, Physical and Engineering Sciences.Royal Society, The*.

**Copper Contamination of Self-Assembled Organic Monolayer Modified Silicon Surfaces Following a "Click" Reaction Characterized with LAPS and SPIM.**

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**Image detection of yeast *Saccharomyces cerevisiae* by light-addressable potentiometric sensors (LAPS).**

Zhang DW, Wu F, Wang J, Watkinson M and KRAUSE SK. *Electrochemistry Communications vol. 72, 41-45*.

**The effect of gold nanoparticles on the impedance of microcapsules visualized by scanning photo-induced impedance microscopy.**

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**Degradation behaviour of thin polymer films of poly (amide ester) hydrogel using quartz crystal microbalance.**  
Dzaraini K, Norizan A, Krause S, Hunter C and Milanesi L. *Advanced Materials Research* vol. 812, 38-45.

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**Generic protease detection technology for monitoring periodontal disease.**  
Zheng X, Cook JP, Watkinson M, Yang S, Douglas I, Rawlinson A and Krause S. *Faraday Discussions* vol. 149, 37-47.

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**Scanning photoinduced impedance microscopy using amorphous silicon photodiode structures.**

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