Jochen Kieninger

List of Publications by Year
in descending order

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65 papers	1,767 citations	304743 22 h-index	276875 41 g-index
68 all docs	68 docs citations	68 times ranked	2648 citing authors

#	Article	IF	Citations
1	Investigation of mass transport processes in a microstructured membrane reactor for the direct synthesis of hydrogen peroxide. Chemical Engineering Science, 2022, 248, 117145.	3.8	0
2	Microfluidic organ-on-chip system for multi-analyte monitoring of metabolites in 3D cell cultures. Lab on A Chip, 2022, 22, 225-239.	6.0	66
3	Electrochemical microelectrode degradation monitoring: in situ investigation of platinum corrosion at neutral pH. Journal of Neural Engineering, 2022, 19, 016005.	3.5	8
4	Standard cochlear implants as electrochemical sensors: Intracochlear oxygen measurements in vivo. Biosensors and Bioelectronics, 2022, 199, 113859.	10.1	10
5	OXYGEN AND LACTATE MONITORING IN 3D BREAST CANCER ORGANOID CULTURE WITH SENSOR-INTEGRATED MICROFLUIDIC PLATFORM. , 2021, , .		2
6	Electrochemical Microsensor for Microfluidic Glyphosate Monitoring in Water Using MIP-Based Concentrators. ACS Sensors, 2021, 6, 2738-2746.	7.8	24
7	Electrochemical methods for neural interface electrodes. Journal of Neural Engineering, 2021, 18, 052001.	3.5	16
8	In Situ Mapping of H₂, O₂, and H₂O₂ in Microreactors: A Parallel, Selective Multianalyte Detection Method. ACS Sensors, 2021, 6, 1583-1594.	7.8	10
9	New life for old wires: electrochemical sensor method for neural implants. Journal of Neural Engineering, 2020, 17, 016007.	3.5	15
10	Zero-consumption Clark-type microsensor for oxygen monitoring in cell culture and organ-on-chip systems. Sensors and Actuators B: Chemical, 2020, 322, 128652.	7.8	36
11	Microsensor Electrodes for 3D Inline Process Monitoring in Multiphase Microreactors. Sensors, 2020, 20, 4876.	3.8	2
12	Deposition of Copper Nanofilms by Surface-Limited Redox Replacement of Underpotentially Deposited Lead on Polycrystalline Gold. Journal of the Electrochemical Society, 2019, 166, D3001-D3005.	2.9	2
13	Next Generation Organ-on-Chip System for Directional Control of Culture Conditions and Metabolic Monitoring of Tumor Organoids. , 2019, , .		2
14	Oxygen Microsensor Array to Study Spatial Efficacy of Photodynamic Therapy in Vitro. , 2019, , .		0
15	Multiparametric, Spatially Resolved Detection of H₂O₂ and O₂ with Electrochemical Microsensor Array in Synthesis Membrane Microreactors. , 2019, , .		1
16	Non-enzymatic glucose sensing based on hierarchical platinum micro-/nanostructures. Journal of Electroanalytical Chemistry, 2018, 816, 215-222.	3.8	39
17	Microsensor systems for cell metabolism â€“ from 2D culture to organ-on-chip. Lab on A Chip, 2018, 18, 1274-1291.	6.0	151
18	In-vivo monitoring of infection via implantable microsensors: a pilot study. Biomedizinische Technik, 2018, 63, 421-426.	0.8	6

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19	On-chip photodynamic therapy â€“ monitoring cell metabolism using electrochemical microsensors. Lab on A Chip, 2018, 18, 3353-3360.	6.0	18
20	Sensor Access to the Cellular Microenvironment Using the Sensing Cell Culture Flask. Biosensors, 2018, 8, 44.	4.7	33
21	Electrochemical multisensor system for monitoring hydrogen peroxide, hydrogen and oxygen in direct synthesis microreactors. Sensors and Actuators B: Chemical, 2018, 273, 973-982.	7.8	14
22	Active Potentiometry for Dissolved Oxygen Monitoring with Platinum Electrodes. Sensors, 2018, 18, 2404.	3.8	19
23	Platinum nanowires anchored on graphene-supported platinum nanoparticles as a highly active electrocatalyst towards glucose oxidation for fuel cell applications. Nanoscale, 2017, 9, 6436-6447.	5.6	38
24	Zero consumption clark-type oxygen microsensor for cell culture monitoring. , 2017, , .		2
25	Rational Design of Morphological Characteristics to Determine the Optimal Hierarchical Nanostructures in Heterogeneous Catalysis. ChemCatChem, 2017, 9, 354-364.	3.7	5
26	Accessing 3D microtissue metabolism: Lactate and oxygen monitoring in hepatocyte spheroids. Biosensors and Bioelectronics, 2017, 87, 941-948.	10.1	83
27	Pericellular Oxygen Monitoring during Low-Level Light Therapy in Cell Culture Using a Microsensor System. Proceedings (mdpi), 2017, 1, 499.	0.2	0
28	Highly Sensitive Electrochemical Glutamate Microsensors for Food Analysis. Proceedings (mdpi), 2017, 1, .	0.2	5
29	Electrochemical Multisensor System for Monitoring the Hydrogen Peroxide Direct Synthesis in Microreactors. Proceedings (mdpi), 2017, 1, 630.	0.2	1
30	Sensitivity and Selectivity of Porous Electrodes in Heterogeneous Liquid-Based Catalytic Reactions: 3D Simulation Study. Journal of the Electrochemical Society, 2016, 163, E273-E281.	2.9	3
31	Microfabricated, amperometric, enzyme-based biosensors for in vivo applications. Analytical and Bioanalytical Chemistry, 2016, 408, 4503-4521.	3.7	79
32	Designed miniaturization of microfluidic biosensor platforms using the stop-flow technique. Analyst, The, 2016, 141, 6073-6079.	3.5	25
33	Multianalyte Antibiotic Detection on an Electrochemical Microfluidic Platform. Analytical Chemistry, 2016, 88, 10036-10043.	6.5	79
34	Electrochemical microsensor system for cancer research on photodynamic therapy in vitro. Journal of Physics: Conference Series, 2016, 757, 012002.	0.4	0
35	Lift-Off Free Fabrication Approach for Periodic Structures with Tunable Nano Gaps for Interdigitated Electrode Arrays. ACS Nano, 2016, 10, 1086-1092.	14.6	24
36	Mass transport and catalytic activity in hierarchical/non-hierarchical and internal/external nanostructures: A novel comparison using 3D simulation. Applied Catalysis A: General, 2016, 517, 12-20.	4.3	24

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37	Photodynamic Therapy â€“ In Vitro Investigation Using an Electrochemical Microsensor System. Procedia Engineering, 2015, 120, 468-471.	1.2	2
38	Lactate Monitoring in Organotypic 3D Cell Cultures. Procedia Engineering, 2015, 120, 961-964.	1.2	4
39	Advanced Electrochemical in Vitro Detection of Superoxide Radicals with Fully Integrated Microsensor System. Procedia Engineering, 2015, 120, 26-30.	1.2	2
40	Stability of Non-enzymatic Glucose Sensor Based on Platinum Micro-/Nanostructures. Procedia Engineering, 2015, 120, 1145-1148.	1.2	6
41	Measurement of reactive oxygen species release from stimulated cell culture with fully integrated microsensor system by advanced electrochemical detection principle. , 2015, , .		0
42	Electrochemical Microfluidic Platform for Simultaneous Multi-analyte Detection. Procedia Engineering, 2015, 120, 916-919.	1.2	7
43	A novel study of the kinetics of external hierarchical nanostructures in methanol fuel cell. Journal of Physics: Conference Series, 2015, 660, 012129.	0.4	0
44	Continuous lactate monitoring by microsensors in spheroid 3D tumor cell cultures. , 2015, , .		0
45	Signal amplification using magnetic bead chains in microfluidic electrochemical biosensors. , 2015, , .		0
46	Self-assembled magnetic bead chains for sensitivity enhancement of microfluidic electrochemical biosensor platforms. Lab on A Chip, 2015, 15, 4314-4321.	6.0	26
47	Hierarchical platinum nanostructure for the non-enzymatic detection of glucose by amperometry and impedance analysis. , 2015, , .		0
48	Nanocrystalline boron-doped diamond nanoelectrode arrays for ultrasensitive dopamine detection. Electrochimica Acta, 2015, 185, 101-106.	5.2	52
49	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 689-721.	5.2	93
50	Superoxide microsensor integrated into a Sensing Cell Culture Flask microsystem using direct oxidation for cell culture application. Biosensors and Bioelectronics, 2015, 65, 354-359.	10.1	22
51	Pericellular oxygen monitoring with integrated sensor chips for reproducible cell culture experiments. Cell Proliferation, 2014, 47, 180-188.	5.3	35
52	Cell culture monitoring for drug screening and cancer research: a transparent, microfluidic, multi-sensor microsystem. Lab on A Chip, 2014, 14, 138-146.	6.0	226
53	Electrochemical characteristics of nanostructured platinum electrodes â€“ a cyclic voltammetry study. Physical Chemistry Chemical Physics, 2014, 16, 8392-8399.	2.8	121
54	Novel fabrication process for sub-micron interdigitated electrode arrays for highly sensitive electrochemical detection. Sensors and Actuators B: Chemical, 2014, 205, 193-198.	7.8	12

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55	Multiparametric, Flexible Microsensor Platform for Metabolic Monitoring <inline-formula> <tex-math notation="TeX">(In~Vivo) </tex-math></inline-formula>. IEEE Sensors Journal, 2014, 14, 3345-3351.	4.7	35
56	Polymer-based, flexible glutamate and lactate microsensors for in vivo applications. Biosensors and Bioelectronics, 2014, 61, 192-199.	10.1	91
57	A novel, multiparametric, flexible microsensor for metabolic monitoring in vivo. , 2013, , .		2
58	Fabrication process development for a high sensitive electrochemical IDA sensor. Microelectronic Engineering, 2012, 97, 235-240.	2.4	11
59	Neural Stem Cells: From Cell Fate and Metabolic Monitoring Toward Clinical Applications. , 2011, , 435-455.		0
60	A novel multiparametric microphysiometry system for dynamic cell culture monitoring. , 2010, , .		2
61	Monitoring of peri-cellular oxygen levels in tumor cell cultures by amperometric oxygen sensor array. , 2010, , .		1
62	pH micro sensor with micro-fluidic liquid-junction reference electrode on-chip for cell culture applications. , 2009, , .		3
63	Simulation and design of a nitric oxide sensor array for cell cultures. , 2009, , .		0
64	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2009, 24, 1-39.	5.2	167
65	Amperometric Oxygen Sensor Array with Novel Chronoamperometric Protocols for Hypoxic Tumor Cell Cultures. , 2007, , .		3