

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	Cell culture monitoring for drug screening and cancer research: a transparent, microfluidic, multi-sensor microsystem. <i>Lab on A Chip</i> , 2014, 14, 138-146.	6.0	226
2	Taking advantage of tumor cell adaptations to hypoxia for developing new tumor markers and treatment strategies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 1-39.	5.2	167
3	Microsensor systems for cell metabolism “ from 2D culture to organ-on-chip. <i>Lab on A Chip</i> , 2018, 18, 1274-1291.	6.0	151
4	Electrochemical characteristics of nanostructured platinum electrodes “ a cyclic voltammetry study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8392-8399.	2.8	121
5	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 689-721.	5.2	93
6	Polymer-based, flexible glutamate and lactate microsensors for in vivo applications. <i>Biosensors and Bioelectronics</i> , 2014, 61, 192-199.	10.1	91
7	Accessing 3D microtissue metabolism: Lactate and oxygen monitoring in hepatocyte spheroids. <i>Biosensors and Bioelectronics</i> , 2017, 87, 941-948.	10.1	83
8	Microfabricated, amperometric, enzyme-based biosensors for in vivo applications. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4503-4521.	3.7	79
9	Multianalyte Antibiotic Detection on an Electrochemical Microfluidic Platform. <i>Analytical Chemistry</i> , 2016, 88, 10036-10043.	6.5	79
10	Microfluidic organ-on-chip system for multi-analyte monitoring of metabolites in 3D cell cultures. <i>Lab on A Chip</i> , 2022, 22, 225-239.	6.0	66
11	Nanocrystalline boron-doped diamond nanoelectrode arrays for ultrasensitive dopamine detection. <i>Electrochimica Acta</i> , 2015, 185, 101-106.	5.2	52
12	Non-enzymatic glucose sensing based on hierarchical platinum micro-/nanostructures. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 215-222.	3.8	39
13	Platinum nanowires anchored on graphene-supported platinum nanoparticles as a highly active electrocatalyst towards glucose oxidation for fuel cell applications. <i>Nanoscale</i> , 2017, 9, 6436-6447.	5.6	38
14	Zero-consumption Clark-type microsensor for oxygen monitoring in cell culture and organ-on-chip systems. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128652.	7.8	36
15	Pericellular oxygen monitoring with integrated sensor chips for reproducible cell culture experiments. <i>Cell Proliferation</i> , 2014, 47, 180-188.	5.3	35
16	Multiparametric, Flexible Microsensor Platform for Metabolic Monitoring &inline-formula><tex-math notation="TeX">(In-Vivo) </tex-math></inline-formula>. <i>IEEE Sensors Journal</i> , 2014, 14, 3345-3351.	4.7	35
17	Sensor Access to the Cellular Microenvironment Using the Sensing Cell Culture Flask. <i>Biosensors</i> , 2018, 8, 44.	4.7	33
18	Self-assembled magnetic bead chains for sensitivity enhancement of microfluidic electrochemical biosensor platforms. <i>Lab on A Chip</i> , 2015, 15, 4314-4321.	6.0	26

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19	Designed miniaturization of microfluidic biosensor platforms using the stop-flow technique. <i>Analyst, The</i> , 2016, 141, 6073-6079.	3.5	25
20	Lift-Off Free Fabrication Approach for Periodic Structures with Tunable Nano Gaps for Interdigitated Electrode Arrays. <i>ACS Nano</i> , 2016, 10, 1086-1092.	14.6	24
21	Mass transport and catalytic activity in hierarchical/non-hierarchical and internal/external nanostructures: A novel comparison using 3D simulation. <i>Applied Catalysis A: General</i> , 2016, 517, 12-20.	4.3	24
22	Electrochemical Microsensor for Microfluidic Glyphosate Monitoring in Water Using MIP-Based Concentrators. <i>ACS Sensors</i> , 2021, 6, 2738-2746.	7.8	24
23	Superoxide microsensor integrated into a Sensing Cell Culture Flask microsystem using direct oxidation for cell culture application. <i>Biosensors and Bioelectronics</i> , 2015, 65, 354-359.	10.1	22
24	Active Potentiometry for Dissolved Oxygen Monitoring with Platinum Electrodes. <i>Sensors</i> , 2018, 18, 2404.	3.8	19
25	On-chip photodynamic therapy "monitoring cell metabolism using electrochemical microsensors. <i>Lab on A Chip</i> , 2018, 18, 3353-3360.	6.0	18
26	Electrochemical methods for neural interface electrodes. <i>Journal of Neural Engineering</i> , 2021, 18, 052001.	3.5	16
27	New life for old wires: electrochemical sensor method for neural implants. <i>Journal of Neural Engineering</i> , 2020, 17, 016007.	3.5	15
28	Electrochemical multisensor system for monitoring hydrogen peroxide, hydrogen and oxygen in direct synthesis microreactors. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 973-982.	7.8	14
29	Novel fabrication process for sub-micron interdigitated electrode arrays for highly sensitive electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 193-198.	7.8	12
30	Fabrication process development for a high sensitive electrochemical IDA sensor. <i>Microelectronic Engineering</i> , 2012, 97, 235-240.	2.4	11
31	In Situ Mapping of H_{2O} , O_2 , and H_2O_2 in Microreactors: A Parallel, Selective Multianalyte Detection Method. <i>ACS Sensors</i> , 2021, 6, 1583-1594.	7.8	10
32	Standard cochlear implants as electrochemical sensors: Intracochlear oxygen measurements in vivo. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113859.	10.1	10
33	Electrochemical microelectrode degradation monitoring: in situ investigation of platinum corrosion at neutral pH. <i>Journal of Neural Engineering</i> , 2022, 19, 016005.	3.5	8
34	Electrochemical Microfluidic Platform for Simultaneous Multi-analyte Detection. <i>Procedia Engineering</i> , 2015, 120, 916-919.	1.2	7
35	Stability of Non-enzymatic Glucose Sensor Based on Platinum Micro-/Nanostructures. <i>Procedia Engineering</i> , 2015, 120, 1145-1148.	1.2	6
36	In-vivo monitoring of infection via implantable microsensors: a pilot study. <i>Biomedizinische Technik</i> , 2018, 63, 421-426.	0.8	6

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37	Rational Design of Morphological Characteristics to Determine the Optimal Hierarchical Nanostructures in Heterogeneous Catalysis. ChemCatChem, 2017, 9, 354-364.	3.7	5
38	Highly Sensitive Electrochemical Glutamate Microsensors for Food Analysis. Proceedings (mdpi), 2017, 1, .	0.2	5
39	Lactate Monitoring in Organotypic 3D Cell Cultures. Procedia Engineering, 2015, 120, 961-964.	1.2	4
40	Amperometric Oxygen Sensor Array with Novel Chronoamperometric Protocols for Hypoxic Tumor Cell Cultures. , 2007, , .		3
41	pH micro sensor with micro-fluidic liquid-junction reference electrode on-chip for cell culture applications. , 2009, , .		3
42	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
43	A novel multiparametric microphysiometry system for dynamic cell culture monitoring. , 2010, , .		2
44	A novel, multiparametric, flexible microsensor for metabolic monitoring in vivo. , 2013, , .		2
45	Photodynamic Therapy "In Vitro Investigation Using an Electrochemical Microsensor System. Procedia Engineering, 2015, 120, 468-471.	1.2	2
46	Advanced Electrochemical in Vitro Detection of Superoxide Radicals with Fully Integrated Microsensor System. Procedia Engineering, 2015, 120, 26-30.	1.2	2
47	Zero consumption clark-type oxygen microsensor for cell culture monitoring. , 2017, , .		2
48	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
49	Next Generation Organ-on-Chip System for Directional Control of Culture Conditions and Metabolic Monitoring of Tumor Organoids. , 2019, , .		2
50	Microsensor Electrodes for 3D Inline Process Monitoring in Multiphase Microreactors. Sensors, 2020, 20, 4876.	3.8	2
51	OXYGEN AND LACTATE MONITORING IN 3D BREAST CANCER ORGANOID CULTURE WITH SENSOR-INTEGRATED MICROFLUIDIC PLATFORM. , 2021, , .		2
52	Monitoring of peri-cellular oxygen levels in tumor cell cultures by amperometric oxygen sensor array. , 2010, , .		1
53	Electrochemical Multisensor System for Monitoring the Hydrogen Peroxide Direct Synthesis in Microreactors. Proceedings (mdpi), 2017, 1, 630.	0.2	1
54	Multiparametric, Spatially Resolved Detection of H ₂ O ₂ and O ₂ with Electrochemical Microsensor Array in Synthesis Membrane Microreactors. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Simulation and design of a nitric oxide sensor array for cell cultures. , 2009, , .		0
56	Measurement of reactive oxygen species release from stimulated cell culture with fully integrated microsensor system by advanced electrochemical detection principle. , 2015, , .		0
57	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
58	Continuous lactate monitoring by microsensors in spheroid 3D tumor cell cultures. , 2015, , .		0
59	Signal amplification using magnetic bead chains in microfluidic electrochemical biosensors. , 2015, , .		0
60	Hierarchical platinum nanostructure for the non-enzymatic detection of glucose by amperometry and impedance analysis. , 2015, , .		0
61	Electrochemical microsensor system for cancer research on photodynamic therapy <i>in vitro</i>. Journal of Physics: Conference Series, 2016, 757, 012002.	0.4	0
62	Pericellular Oxygen Monitoring during Low-Level Light Therapy in Cell Culture Using a Microsensor System. Proceedings (mdpi), 2017, 1, 499.	0.2	0
63	Oxygen Microsensor Array to Study Spatial Efficacy of Photodynamic Therapy in Vitro. , 2019, , .		0
64	Neural Stem Cells: From Cell Fate and Metabolic Monitoring Toward Clinical Applications. , 2011, , 435-455.		0
65	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