

Jörg Opitz

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

893
citations

471509

17
h-index

477307

29
g-index

50
all docs

50
docs citations

50
times ranked

1434
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2014, 72, 372-380.	10.3	121
2	Selective targeting of green fluorescent nanodiamond conjugates to mitochondria in HeLa cells. <i>Journal of Biophotonics</i> , 2009, 2, 596-606.	2.3	95
3	Recent Advances in Manufacturing Innovative Stents. <i>Pharmaceutics</i> , 2020, 12, 349.	4.5	72
4	Parallel Manipulation of Bifunctional DNA Molecules on Structured Surfaces Using Kinesin-Driven Microtubules. <i>Small</i> , 2006, 2, 1090-1098.	10.0	65
5	Parallel arrays of Schottky barrier nanowire field effect transistors: Nanoscopic effects for macroscopic current output. <i>Nano Research</i> , 2013, 6, 381-388.	10.4	55
6	The microscopy cell (MicCell), a versatile modular flowthrough system for cell biology, biomaterial research, and nanotechnology. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 21-36.	2.2	50
7	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. <i>Nano Research</i> , 2014, 7, 263-271.	10.4	45
8	Patterned Biochemical Functionalization Improves Aptamer-Based Detection of Unlabeled Thrombin in a Sandwich Assay. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12029-12035.	8.0	28
9	Surface evaluation of titanium oxynitride coatings used for developing layered cardiovascular stents. <i>Materials Science and Engineering C</i> , 2019, 99, 405-416.	7.3	28
10	Light-field characterization in a continuous hydrogen-producing photobioreactor by optical simulation and computational fluid dynamics. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2439-2449.	3.3	27
11	Biotechnological hydrogen production by photosynthesis. <i>Engineering in Life Sciences</i> , 2014, 14, 592-606.	3.6	25
12	Ab initio calculated electronic structure of metallic nanowires and nanotubes. <i>Physical Review B</i> , 2002, 66, .	3.2	24
13	Site-specific binding and stretching of DNA molecules at UV-light-patterned aminoterpolymer films. <i>Nanotechnology</i> , 2004, 15, 717-723.	2.6	22
14	Bottom-up synthesis of ultrathin straight platinum nanowires: Electric field impact. <i>Nano Research</i> , 2013, 6, 303-311.	10.4	21
15	Combinatorial approaches to evaluate nanodiamond uptake and induced cellular fate. <i>Nanotechnology</i> , 2016, 27, 085107.	2.6	19
16	Dielectrophoretic Growth of Platinum Nanowires: Concentration and Temperature Dependence of the Growth Velocity. <i>Langmuir</i> , 2012, 28, 7498-7504.	3.5	18
17	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 950.	2.5	18
18	Non-covalent modified multi-walled carbon nanotubes: dispersion capabilities and interactions with bacteria. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 055008.	1.2	17

#	ARTICLE	IF	CITATIONS
19	Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2765-2773.	2.2	16
20	Photolabile Carboxylic Acid Protected Terpolymers for Surface Patterning. Part 2: Photocleavage and Film Patterning. <i>Langmuir</i> , 2006, 22, 9446-9452.	3.5	14
21	Bio-functionalization of multi-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17158.	2.8	9
22	Effect of <i>Oenothera odorata</i> Root Extract on Microgravity and Disuse-Induced Muscle Atrophy. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-9.	1.2	9
23	Modification of titanium implants using biofunctional nanodiamonds for enhanced antimicrobial properties. <i>Nanotechnology</i> , 2020, 31, 205603.	2.6	9
24	Fractal dimension of time-resolved autofluorescence discriminates tumour from healthy tissues in the oral cavity. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 852-854.	1.7	8
25	Targeting Diamond Nanoparticles into Folate-Receptor Expressing HeLa Cells. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 414-418.	0.7	7
26	Combining Electrochemical Impedance Spectroscopy and Surface Plasmon Resonance into one Simultaneous Read-Out System for the Detection of Surface Interactions. <i>Sensors</i> , 2013, 13, 14650-14661.	3.8	7
27	Chemically Modified Biomimetic Carbon-Coated Iron Nanoparticles for Stent Coatings: In Vitro Cytocompatibility and In Vivo Structural Changes in Human Atherosclerotic Plaques. <i>Biomedicines</i> , 2021, 9, 802.	3.2	7
28	High yield formation of lipid bilayer shells around silicon nanowires in aqueous solution. <i>Nanotechnology</i> , 2013, 24, 355601.	2.6	6
29	Influence of hydrostatic pressure on the thermal properties of polymers at low temperatures. <i>Cryogenics</i> , 1998, 38, 105-108.	1.7	5
30	Photolabile and thermally labile polymers as templates and for surface patterning. <i>Polymers for Advanced Technologies</i> , 2006, 17, 691-693.	3.2	5
31	Quantitative analysis of BMP-2 derived peptide covalently grafted onto oxidized detonation nanodiamonds. <i>Carbon</i> , 2019, 152, 740-745.	10.3	5
32	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1064.	2.5	5
33	Green fluorescent nanodiamond conjugates and their possible applications for biosensing. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
34	Polarization mode preservation in elliptical index tailored optical fibers for apertureless scanning near-field optical microscopy. <i>Applied Physics Letters</i> , 2010, 97, 103108.	3.3	3
35	Effect of Waveform of ac Voltage on the Morphology and Crystallinity of Electrochemically Assembled Platinum Nanowires. <i>Langmuir</i> , 2014, 30, 5655-5661.	3.5	3
36	Determination of the Entire Stent Surface Area by a New Analytical Method. <i>Materials</i> , 2020, 13, 5633.	2.9	3

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37	Evaluation of in Vitro Corrosion Behavior of Titanium Oxynitride Coated Stainless Steel Stents. IEEE Access, 2021, 9, 59766-59782.	4.2	3
38	Functionalized Nanodiamonds as Nanoagents in Materials and Life Sciences. Materialpruefung/Materials Testing, 2009, 51, 659-663.	2.2	3
39	Chemically activated nanodiamonds for aluminum alloy corrosion protection and monitoring. Proceedings of SPIE, 2009, , .	0.8	2
40	A compact differential refractive index sensor based on localized surface plasmons. Sensors and Actuators A: Physical, 2014, 214, 252-258.	4.1	2
41	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. Biomedical Materials (Bristol), 2020, 15, 055026.	3.3	2
42	Testing possibilities for establishing nanodiamond-DNA-conjugates. , 2011, , .		1
43	Nondestructive testing of electron beam sterilization by means of an optically active marker material. , 2012, , .		1
44	Time-resolved luminescence measurements on upconversion phosphors for electron beam sterilization monitoring. Proceedings of SPIE, 2013, , .	0.8	1
45	Polarization control in optical fibers and applications in optical microscopy and spectroscopy. , 2013, , .		1
46	Evaluation of low energy electron beam dose application by means of a portable optical device. Optical Engineering, 2014, 53, 114102.	1.0	1
47	Human $\hat{\pm}$ -thrombin detection platform using aptamers on a silicon nanowire field-effect transistor. , 2017, , .		1
48	Detection of cancer cells in prostate tissue with time-resolved fluorescence spectroscopy. , 2011, , .		0
49	Entwicklung eines Sensors zur spezifischen Proteindetektion am Beispiel von Norovirus-Kapsidprotein. TM Technisches Messen, 2013, 80, 155-162.	0.7	0
50	(Bio)hybrid materials based on optically active particles. Proceedings of SPIE, 2014, , .	0.8	0