JÃ¶rg Opitz

List of Publications by Year
in descending order

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50	893	471509	477307
papers	citations	17	29
		h-index	g-index

50	50	50	1434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of in Vitro Corrosion Behavior of Titanium Oxynitride Coated Stainless Steel Stents. IEEE Access, 2021, 9, 59766-59782.	4.2	3
2	Chemically Modified Biomimetic Carbon-Coated Iron Nanoparticles for Stent Coatings: In Vitro Cytocompatibility and In Vivo Structural Changes in Human Atherosclerotic Plaques. Biomedicines, 2021, 9, 802.	3.2	7
3	Determination of the Entire Stent Surface Area by a New Analytical Method. Materials, 2020, 13, 5633.	2.9	3
4	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. Biomedical Materials (Bristol), 2020, 15, 055026.	3.3	2
5	Modification of titanium implants using biofunctional nanodiamonds for enhanced antimicrobial properties. Nanotechnology, 2020, 31, 205603.	2.6	9
6	Recent Advances in Manufacturing Innovative Stents. Pharmaceutics, 2020, 12, 349.	4.5	72
7	Surface evaluation of titanium oxynitride coatings used for developing layered cardiovascular stents. Materials Science and Engineering C, 2019, 99, 405-416.	7.3	28
8	Quantitative analysis of BMP-2 derived peptide covalently grafted onto oxidized detonation nanodiamonds. Carbon, 2019, 152, 740-745.	10.3	5
9	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. Applied Sciences (Switzerland), 2019, 9, 1064.	2.5	5
10	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. Applied Sciences (Switzerland), 2018, 8, 950.	2.5	18
11	Human Î±-thrombin detection platform using aptamers on a silicon nanowire field-effect transistor. , 2017, , .		1
12	Non-covalent modified multi-walled carbon nanotubes: dispersion capabilities and interactions with bacteria. Biomedical Physics and Engineering Express, 2016, 2, 055008.	1.2	17
13	Combinatorial approaches to evaluate nanodiamond uptake and induced cellular fate. Nanotechnology, 2016, 27, 085107.	2.6	19
14	Lightâ€fieldâ€characterization in a continuous hydrogenâ€producing photobioreactor by optical simulation and computational fluid dynamics. Biotechnology and Bioengineering, 2015, 112, 2439-2449.	3.3	27
15	Effect ofOenothera odorataRoot Extract on Microgravity and Disuse-Induced Muscle Atrophy. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-9.	1.2	9
16	Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. Beilstein Journal of Organic Chemistry, 2014, 10, 2765-2773.	2.2	16
17	Biotechnological hydrogen production by photosynthesis. Engineering in Life Sciences, 2014, 14, 592-606.	3.6	25
18	Evaluation of low energy electron beam dose application by means of a portable optical device. Optical Engineering, 2014, 53, 114102.	1.0	1

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19	(Bio)hybdrid materials based on optically active particles. Proceedings of SPIE, 2014, , .	0.8	0
20	Fractal dimension of time-resolved autofluorescence discriminates tumour from healthy tissues in the oral cavity. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 852-854.	1.7	8
21	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. Carbon, 2014, 72, 372-380.	10.3	121
22	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. Nano Research, 2014, 7, 263-271.	10.4	45
23	A compact differential refractive index sensor based on localized surface plasmons. Sensors and Actuators A: Physical, 2014, 214, 252-258.	4.1	2
24	Effect of Waveform of ac Voltage on the Morphology and Crystallinity of Electrochemically Assembled Platinum Nanowires. Langmuir, 2014, 30, 5655-5661.	3.5	3
25	Targeting Diamond Nanoparticles into Folate-Receptor Expressing HeLa Cells. Journal of Applied Spectroscopy, 2013, 80, 414-418.	0.7	7
26	Parallel arrays of Schottky barrier nanowire field effect transistors: Nanoscopic effects for macroscopic current output. Nano Research, 2013, 6, 381-388.	10.4	55
27	Patterned Biochemical Functionalization Improves Aptamer-Based Detection of Unlabeled Thrombin in a Sandwich Assay. ACS Applied Materials & Interfaces, 2013, 5, 12029-12035.	8.0	28
28	High yield formation of lipid bilayer shells around silicon nanowires in aqueous solution. Nanotechnology, 2013, 24, 355601.	2.6	6
29	Bio-functionalization of multi-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2013, 15, 17158.	2.8	9
30	Bottom-up synthesis of ultrathin straight platinum nanowires: Electric field impact. Nano Research, 2013, 6, 303-311.	10.4	21
31	Time-resolved luminescence measurements on upconversion phosphors for electron beam sterilization monitoring. Proceedings of SPIE, 2013, , .	0.8	1
32	Combining Electrochemical Impedance Spectroscopy and Surface Plasmon Resonance into one Simultaneous Read-Out System for the Detection of Surface Interactions. Sensors, 2013, 13, 14650-14661.	3.8	7
33	Polarization control in optical fibers and applications in optical microscopy and spectroscopy. , 2013, , .		1
34	Entwicklung eines Sensors zur spezifischen Proteindetektion am Beispiel von Norovirus-Kapsidprotein. TM Technisches Messen, 2013, 80, 155-162.	0.7	0
35	Nondestructive testing of electron beam sterilization by means of an optically active marker material. , 2012, , .		1
36	Dielectrophoretic Growth of Platinum Nanowires: Concentration and Temperature Dependence of the Growth Velocity. Langmuir, 2012, 28, 7498-7504.	3.5	18

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37	Testing possibilities for establishing nanodiamond-DNA-conjugates. , 2011, , .		1
38	Detection of cancer cells in prostate tissue with time-resolved fluorescence spectroscopy. , 2011, , .		0
39	Polarization mode preservation in elliptical index tailored optical fibers for apertureless scanning near-field optical microscopy. Applied Physics Letters, 2010, 97, 103108.	3.3	3
40	Green fluorescent nanodiamond conjugates and their possible applications for biosensing. Proceedings of SPIE, 2010, , .	0.8	4
41	Chemically activated nanodiamonds for aluminum alloy corrosion protection and monitoring. Proceedings of SPIE, 2009, , .	0.8	2
42	Selective targeting of green fluorescent nanodiamond conjugates to mitochondria in HeLa cells. Journal of Biophotonics, 2009, 2, 596-606.	2.3	95
43	Functionalized Nanodiamonds as Nanoagents in Materials and Life Sciences. Materialpruefung/Materials Testing, 2009, 51, 659-663.	2.2	3
44	Photolabile Carboxylic Acid Protected Terpolymers for Surface Patterning. Part 2:Â Photocleavage and Film Patterning. Langmuir, 2006, 22, 9446-9452.	3.5	14
45	Parallel Manipulation of Bifunctional DNA Molecules on Structured Surfaces Using Kinesin-Driven Microtubules. Small, 2006, 2, 1090-1098.	10.0	65
46	Photolabile and thermally labile polymers as templates and for surface patterning. Polymers for Advanced Technologies, 2006, 17, 691-693.	3.2	5
47	The microscopy cell (MicCell), a versatile modular flowthrough system for cell biology, biomaterial research, and nanotechnology. Microfluidics and Nanofluidics, 2006, 2, 21-36.	2.2	50
48	Site-specific binding and stretching of DNA molecules at UV-light-patterned aminoterpolymer films. Nanotechnology, 2004, 15, 717-723.	2.6	22
49	Ab initiocalculated electronic structure of metallic nanowires and nanotubes. Physical Review B, 2002, 66, .	3.2	24
50	Influence of hydrostatic pressure on the thermal properties of polymers at low temperatures. Cryogenics, 1998, 38, 105-108.	1.7	5