

Ulrich Simon

List of Publications by Year in descending order

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268
papers

13,298
citations

36303

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times ranked

17441
citing authors

#	ARTICLE	IF	CITATIONS
1	Sorption and Reaction of Biomass Derived HC Blends and Their Constituents on a Commercial PtPd/Al ₂ O ₃ Oxidation Catalyst. <i>Catalysis Letters</i> , 2022, 152, 1880-1894.	2.6	3
2	Perovskite Catalyst for In-Cylinder Coating to Reduce Raw Pollutant Emissions of Internal Combustion Engines. <i>ACS Omega</i> , 2022, 7, 5340-5349.	3.5	9
3	The effects of oxygen pressure on the discharge performance of potassium-oxygen batteries. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1992-2000.	4.9	3
4	Impact of device design on the electronic and optoelectronic properties of integrated Ru-terpyridine complexes. <i>Beilstein Journal of Nanotechnology</i> , 2022, 13, 219-229.	2.8	3
5	DNA introduces an independent temperature responsiveness to thermosensitive microgels and enables switchable plasmon coupling as well as controlled uptake and release. <i>Nanoscale</i> , 2021, 13, 2875-2882.	5.6	4
6	Encapsulation of Au ₅₅ Clusters within Surface-Supported Metal-Organic Frameworks for Catalytic Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2021, 4, 522-528.	5.0	15
7	Induced pluripotent stem cell-derived vascular networks to screen nano-bio interactions. <i>Nanoscale Horizons</i> , 2021, 6, 245-259.	8.0	7
8	Recent Understanding of Low-Temperature Copper Dynamics in Cu-Chabazite NH ₃ -SCR Catalysts. <i>Catalysts</i> , 2021, 11, 52.	3.5	14
9	Composition/Performance Evaluation of Lean NO _x Trap Catalysts for Coupling with SCR Technology. <i>ChemCatChem</i> , 2021, 13, 1787-1805.	3.7	12
10	Simulating Metaphyseal Fracture Healing in the Distal Radius. <i>Biomechanics</i> , 2021, 1, 29-42.	1.2	5
11	PTFE Enhances Discharge Performance of Carbon Cathodes in Potassium-Oxygen Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1620.	4.7	3
12	Labelling via [Al ₁₈ F] ₂ ⁺ Using Precomplexed Al-NODA Moieties. <i>Pharmaceuticals</i> , 2021, 14, 818.	3.8	4
13	Inhibition Effect of Phosphorus Poisoning on the Dynamics and Redox of Cu Active Sites in a Cu-SSZ-13 NH ₃ -SCR Catalyst for NO _x Reduction. <i>Environmental Science & Technology</i> , 2021, 55, 12619-12629.	10.0	43
14	Controlling microgel deformation via deposition method and surface functionalization of solid supports. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4927-4934.	2.8	18
15	Anomalous Discharge Behavior of Graphite Nanosheet Electrodes in Lithium-Oxygen Batteries. <i>Materials</i> , 2020, 13, 43.	2.9	5
16	Elucidation of the Active Sites for Monodisperse FePt and Pt Nanocrystal Catalysts for p-WSe ₂ Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11877-11885.	3.1	10
17	Optimizing Discharge Capacity of Graphite Nanosheet Electrodes for Lithium-Oxygen Batteries. <i>Batteries</i> , 2020, 6, 36.	4.5	3
18	Spectroscopic identification and catalytic relevance of NH ₄ ⁺ intermediates in selective NO _x reduction over Cu-SSZ-13 zeolites. <i>Chemosphere</i> , 2020, 250, 126272.	8.2	21

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19	Transport through Redox-Active Ru-Terpyridine Complexes Integrated in Single Nanoparticle Devices. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4881-4889.	3.1	5
20	Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. <i>Nature Communications</i> , 2020, 11, 652.	12.8	46
21	Integration of Individual Functionalized Gold Nanoparticles into Nanoelectrode Configurations: Recent Advances. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 3798-3810.	2.0	2
22	Controlling the Electronic Contact at the Terpyridine/Metal Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21367-21375.	3.1	10
23	Size-Tailored Biocompatible FePt Nanoparticles for Dual T_1/T_2 Magnetic Resonance Imaging Contrast Enhancement. <i>Langmuir</i> , 2019, 35, 10424-10434.	3.5	13
24	Deformation of Microgels at Solid-Liquid Interfaces Visualized in Three-Dimension. <i>Nano Letters</i> , 2019, 19, 8862-8867.	9.1	42
25	Tracking mobile active sites and intermediates in NH_3 -SCR over zeolite catalysts by impedance-based <i>in situ</i> spectroscopy. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 986-994.	3.7	16
26	Mechanistic Understanding of Cu-CHA Catalyst as Sensor for Direct NH_3 -SCR Monitoring: The Role of Cu Mobility. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8097-8105.	8.0	30
27	Cargo shuttling by electrochemical switching of core-shell microgels obtained by a facile one-shot polymerization. <i>Chemical Science</i> , 2019, 10, 1844-1856.	7.4	38
28	Stepwise Growth of Ruthenium Terpyridine Complexes on Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6537-6548.	3.1	8
29	Storage and Oxidation of Oxygen-Free and Oxygenated Hydrocarbons on a Pt-Pd Series Production Oxidation Catalyst. <i>Topics in Catalysis</i> , 2019, 62, 376-385.	2.8	6
30	Secondary-Phase Formation in Spinel-Type $LiMn_2O_4$ -Cathode Materials for Lithium-Ion Batteries: Quantifying Trace Amounts of Li_2MnO_3 by Electron Paramagnetic Resonance Spectroscopy. <i>Applied Magnetic Resonance</i> , 2018, 49, 415-427.	1.2	14
31	Ion specific effects on the immobilisation of charged gold nanoparticles on metal surfaces. <i>RSC Advances</i> , 2018, 8, 1717-1724.	3.6	5
32	CLPFFD-PEG functionalized NIR-absorbing hollow gold nanospheres and gold nanorods inhibit β -amyloid aggregation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2432-2443.	5.8	23
33	Sb_2Te_3 Growth Study Reveals That Formation of Nanoscale Charge Carrier Domains Is an Intrinsic Feature Relevant for Electronic Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6834-6842.	5.0	11
34	Modelling the fracture-healing process as a moving-interface problem using an interface-capturing approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 512-520.	1.6	11
35	Au Nanoparticles as Template for Defect Formation in Memristive $SrTiO_3$ Thin Films. <i>Nanomaterials</i> , 2018, 8, 869.	4.1	9
36	Mobility of NH_3 -Solvated $CuII$ Ions in Cu-SSZ-13 and Cu-ZSM-5 NH_3 -SCR Catalysts: A Comparative Impedance Spectroscopy Study. <i>Catalysts</i> , 2018, 8, 162.	3.5	22

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37	Local dynamics of copper active sites in zeolite catalysts for selective catalytic reduction of NO _x with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2018, 237, 263-272.	20.2	35
38	Electrochemical and Electronic Charge Transport Properties of Ni-Doped LiMn ₂ O ₄ Spinel Obtained from Polyol-Mediated Synthesis. <i>Materials</i> , 2018, 11, 806.	2.9	19
39	Simulating lateral distraction osteogenesis. <i>PLoS ONE</i> , 2018, 13, e0194500.	2.5	12
40	Microwave Cavity Perturbation Studies on H-form and Cu Ion-Exchanged SCR Catalyst Materials: Correlation of Ammonia Storage and Dielectric Properties. <i>Topics in Catalysis</i> , 2017, 60, 243-249.	2.8	19
41	Influence of Synthesis, Dopants and Cycling Conditions on the Cycling Stability of Doped LiNi _{0.5} Mn _{1.5} O ₄ Spinel. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6349-A6358.	2.9	17
42	Electrochemical stability and electron transfer across 4-methyl-4-(n-mercaptoalkyl) biphenyl monolayers on Au(100)-(1Å ⁻¹) electrodes in 1-hexyl-3-methylimidazolium hexafluorophosphate ionic liquid. <i>Electrochimica Acta</i> , 2017, 231, 44-52.	5.2	4
43	Elucidation and Comparison of the Effect of LiTFSI and LiNO ₃ Salts on Discharge Chemistry in Nonaqueous Li ⁺ O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19319-19325.	8.0	24
44	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. <i>Analytical Chemistry</i> , 2017, 89, 6091-6098.	6.5	51
45	Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes. <i>Electrochimica Acta</i> , 2017, 232, 98-105.	5.2	26
46	Surface coupling strength of gold nanoparticles affects cytotoxicity towards neurons. <i>Biomaterials Science</i> , 2017, 5, 1051-1060.	5.4	7
47	The effects of gold nanoparticles functionalized with Aβ ¹⁻⁴² -amyloid specific peptides on an in vitro model of blood-brain barrier. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1645-1652.	3.3	64
48	Hydrophobic superparamagnetic FePt nanoparticles in hydrophilic poly(N-vinylcaprolactam) microgels: a new multifunctional hybrid system. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1284-1292.	5.8	33
49	Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metal-Support Interactions in Pd/TiO ₂ Catalysts for Nitrobenzene Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 1197-1206.	11.2	138
50	Construction of 6-thioguanine and 6-mercaptopurine carriers based on β-cyclodextrins and gold nanoparticles. <i>Carbohydrate Polymers</i> , 2017, 177, 22-31.	10.2	25
51	Toxic effects and biodistribution of ultrasmall gold nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 3011-3037.	4.2	87
52	Resistive Switching of Sub-10 nm TiO ₂ Nanoparticle Self-Assembled Monolayers. <i>Nanomaterials</i> , 2017, 7, 370.	4.1	14
53	Single Interdigital Transducer Approach for Gravimetric SAW Sensor Applications in Liquid Environments. <i>Sensors</i> , 2017, 17, 2931.	3.8	10
54	Gold nanoparticles stabilized with β-cyclodextrin-2-amino-4-(4-chlorophenyl)thiazole complex: A novel system for drug transport. <i>PLoS ONE</i> , 2017, 12, e0185652.	2.5	10

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55	In Situ Spectroscopic Studies of Proton Transport in Zeolite Catalysts for NH ₃ -SCR. <i>Catalysts</i> , 2016, 6, 204.	3.5	8
56	Molecular and Electronic Structure of the Cluster [Au ₈ (PPh ₃) ₈](NO ₃) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 975-981.	2.0	9
57	Cellular Uptake: Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling (Adv. Healthcare Mater. 24/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 3088-3088.	7.6	0
58	The effect of Cu and Fe cations on NH ₃ -supported proton transport in DeNO _x -SCR zeolite catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 3362-3366.	4.1	32
59	Formation and Effect of NH ₄ ⁺ Intermediates in NH ₃ -SCR over Fe-ZSM-5 Zeolite Catalysts. <i>ACS Catalysis</i> , 2016, 6, 7696-7700.	11.2	68
60	3D Structures of Responsive Nanocompartmentalized Microgels. <i>Nano Letters</i> , 2016, 16, 7295-7301.	9.1	90
61	Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1446-1452.	3.9	14
62	Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling. <i>Advanced Healthcare Materials</i> , 2016, 5, 3118-3128.	7.6	6
63	Metal Loading Affects the Proton Transport Properties and the Reaction Monitoring Performance of Fe-ZSM-5 and Cu-ZSM-5 in NH ₃ -SCR. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25361-25370.	3.1	31
64	Monitoring NH ₃ storage and conversion in Cu-ZSM-5 and Cu-SAPO-34 catalysts for NH ₃ -SCR by simultaneous impedance and DRIFT spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 1075-1082.	7.8	24
65	Sensing catalytic conversion: Simultaneous DRIFT and impedance spectroscopy for in situ monitoring of NH ₃ -SCR on zeolites. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 492-499.	7.8	21
66	Directed Self-Assembly and Infrared Reflection Absorption Spectroscopy Analysis of Amphiphilic and Zwitterionic Janus Gold Nanoparticles. <i>Langmuir</i> , 2016, 32, 954-962.	3.5	10
67	Ligand-lipid and ligand-core affinity control the interaction of gold nanoparticles with artificial lipid bilayers and cell membranes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1409-1419.	3.3	20
68	Multivalency of PEG-thiol ligands affects the stability of NIR-absorbing hollow gold nanospheres and gold nanorods. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2828-2841.	5.8	22
69	In situ monitoring of DeNO _x -SCR on zeolite catalysts by means of simultaneous impedance and DRIFT spectroscopy. <i>Procedia Engineering</i> , 2015, 120, 257-260.	1.2	8
70	Resistive Switching: Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles (Small 48/2015). <i>Small</i> , 2015, 11, 6504-6504.	10.0	0
71	Shape without Structure: An Intriguing Formation Mechanism in the Solvothermal Synthesis of the Phase-Change Material Sb ₂ Te ₃ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6632-6636.	13.8	18
72	Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles. <i>Small</i> , 2015, 11, 6444-6456.	10.0	24

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73	Correlating the Integral Sensing Properties of Zeolites with Molecular Processes by Combining Broadband Impedance and DRIFT Spectroscopy—A New Approach for Bridging the Scales. <i>Sensors</i> , 2015, 15, 28915-28941.	3.8	30
74	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015, 11, 3183-3193.	10.0	72
75	Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. <i>RSC Advances</i> , 2015, 5, 39252-39262.	3.6	18
76	Polydiacetylene stabilized gold nanoparticles — extraordinary high stability and integration into a nanoelectrode device. <i>RSC Advances</i> , 2015, 5, 102981-102992.	3.6	7
77	Modern chemical synthesis methods towards low-dimensional phase change structures in the Ge—Sb—Te material system. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2015, 61, 27-45.	4.0	50
78	Probing Structural Dynamics of an Artificial Protein Cage Using High-Speed Atomic Force Microscopy. <i>Nano Letters</i> , 2015, 15, 1331-1335.	9.1	29
79	Solvothermally Synthesized Sb ₂ Te ₃ Platelets Show Unexpected Optical Contrasts in Mid-Infrared Near-Field Scanning Microscopy. <i>Nano Letters</i> , 2015, 15, 2787-2793.	9.1	23
80	Enhancement of capacitive deionization capacity of hierarchical porous carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12730-12737.	10.3	69
81	Microgel Size Modulation by Electrochemical Switching. <i>Chemistry of Materials</i> , 2015, 27, 7306-7312.	6.7	61
82	Zirconium phosphate-based porous heterostructures: A new class of materials for ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 175-180.	7.8	3
83	Ammonia storage studies on H-ZSM-5 zeolites by microwave cavity perturbation: correlation of dielectric properties with ammonia storage. <i>Journal of Sensors and Sensor Systems</i> , 2015, 4, 263-269.	0.9	39
84	Directed Immobilization of Janus-AuNP in Heterometallic Nanogaps: a Key Step Toward Integration of Functional Molecular Units in Nanoelectronics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27142-27149.	3.1	16
85	Volume-doped cobalt titanates for ethanol sensing: An impedance and X-ray absorption spectroscopy study. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 60-69.	7.8	14
86	Differential Adsorption of Gold Nanoparticles to Gold/Palladium and Platinum Surfaces. <i>Langmuir</i> , 2014, 30, 574-583.	3.5	16
87	Air—Blood Barrier Translocation of Tracheally Instilled Gold Nanoparticles Inversely Depends on Particle Size. <i>ACS Nano</i> , 2014, 8, 222-233.	14.6	211
88	Challenging material patterning: Fine lithography on coarse substrates. <i>Scanning</i> , 2014, 36, 362-367.	1.5	0
89	Selective Packaging of Ferricyanide within Thermoresponsive Microgels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26199-26211.	3.1	38
90	Enhanced photoacoustic signal from DNA assembled gold nanoparticle networks. <i>Materials Research Express</i> , 2014, 1, 045015.	1.6	4

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91	Detection of the ammonia loading of a Cu Chabazite SCR catalyst by a radio frequency-based method. <i>Sensors and Actuators B: Chemical</i> , 2014, 205, 88-93.	7.8	39
92	Synthesis and Internal Structure of Finite-Size DNA-Gold Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7174-7184.	3.1	14
93	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. <i>Nanoscale</i> , 2014, 6, 5146-5155.	5.6	27
94	Competing strain relaxation mechanisms in epitaxially grown Pr _{0.48} Ca _{0.52} MnO ₃ on SrTiO ₃ . <i>APL Materials</i> , 2014, 2, 106106.	5.1	12
95	Bonding them all. <i>Nature Materials</i> , 2013, 12, 694-696.	27.5	18
96	In vivo nanotoxicity testing using the zebrafish embryo assay. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3918.	5.8	104
97	Electrical Characterization of 4-Mercaptophenylamine-Capped Nanoparticles in a Heterometallic Nanoelectrode Gap. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22002-22009.	3.1	10
98	Cellular uptake of fluorophore-labeled glyco-DNA-gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	1
99	Combinatorial Approaches for Synthesis of Metal Oxides: Processing and Sensing Application. , 2013, , 117-166.		0
100	Features of Transport in Ultrathin Gold Nanowire Structures. <i>Small</i> , 2013, 9, 846-852.	10.0	44
101	Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives. <i>Structure and Bonding</i> , 2013, , 189-241.	1.0	8
102	[Au ₁₄ (PPh ₃) ₈ (NO ₃) ₄]: An Example of a New Class of Au(NO ₃) ₃ -Ligated Superatom Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3529-3532.	13.8	84
103	High-Sensitivity Real-Time Analysis of Nanoparticle Toxicity in Green Fluorescent Protein-Expressing Zebrafish. <i>Small</i> , 2013, 9, 863-869.	10.0	47
104	A Missing Link in Undecagold Cluster Chemistry: Single-Crystal X-Ray Analysis of [Au ₁₁ (PPh ₃) ₃ Cl ₃]. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2002-2006.	2.0	52
105	Dip-pen-based direct writing of conducting silver dots. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 256-262.	9.4	11
106	Ultrathin Nanowires: Features of Transport in Ultrathin Gold Nanowire Structures (<i>Small</i> 6/2013). <i>Small</i> , 2013, 9, 960-960.	10.0	0
107	Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. <i>Nanoscale</i> , 2013, 5, 6224.	5.6	82
108	Isolation, Optical Properties and Core Structure of a Water-soluble, Phosphine-stabilized [Au ₉] ³⁺ Cluster. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013, 68, 569-574.	0.7	10

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109	Differential hERG ion channel activity of ultrasmall gold nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8004-8009.	7.1	63
110	Prediction of fracture healing under axial loading, shear loading and bending is possible using distortional and dilatational strains as determining mechanical stimuli. Journal of the Royal Society Interface, 2013, 10, 20130389.	3.4	42
111	High-throughput experimentation in resistive gas sensor materials development. Journal of Materials Research, 2013, 28, 574-588.	2.6	17
112	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. Macromolecular Rapid Communications, 2013, 34, 855-860.	3.9	48
113	Guided immobilisation of single gold nanoparticles by chemical electron beam lithography. Beilstein Journal of Nanotechnology, 2013, 4, 336-344.	2.8	8
114	Size-dependent multispectral photoacoustic response of solid and hollow gold nanoparticles. Nanotechnology, 2012, 23, 225707.	2.6	24
115	Size dependent photoacoustic signal response of gold nanoparticles using a multispectral laser diode system. , 2012, , .		1
116	Preferential Adhesion of Silver Nanoparticles Onto Crystal Faces of β -Cyclodextrin/Carboxylic Acids Inclusion Compounds. Journal of Nanoscience and Nanotechnology, 2012, 12, 8929-8934.	0.9	6
117	Covalent Cargo Loading to Molecular Shuttles via Copper-free "Click Chemistry". Biomacromolecules, 2012, 13, 3908-3911.	5.4	19
118	Neuron Adhesion: Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties (Small 21/2012). Small, 2012, 8, 3226-3226.	10.0	0
119	Electrically Conducting Nanopatterns Formed by Chemical e-Beam Lithography via Gold Nanoparticle Seeds. Langmuir, 2012, 28, 2448-2454.	3.5	22
120	Electrical Transport through Single Nanoparticles and Nanoparticle Arrays. Journal of Physical Chemistry C, 2012, 116, 20657-20665.	3.1	24
121	Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. Nanotoxicology, 2012, 6, 36-46.	3.0	313
122	Solid Phase Supported "Click" Chemistry Approach for the Preparation of Water Soluble Gold Nanoparticle Dimers. Journal of Cluster Science, 2012, 23, 1049-1059.	3.3	9
123	Zeolites as nanoporous, gas-sensitive materials for in situ monitoring of DeNO _x -SCR. Beilstein Journal of Nanotechnology, 2012, 3, 667-673.	2.8	28
124	Highly n-type doped InGaN films for efficient direct solar hydrogen generation. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 964-967.	0.8	6
125	Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties. Small, 2012, 8, 3357-3367.	10.0	30
126	Surface "Click" Reaction of DNA followed by Directed Metalization for the Construction of Contactable Conducting Nanostructures. Angewandte Chemie - International Edition, 2012, 51, 7586-7588.	13.8	26

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127	Hierarchical Structures of Carbon Nanotubes and Arrays of Chromium-Capped Silicon Nanopillars: Formation and Electrical Properties. <i>Chemistry - A European Journal</i> , 2012, 18, 11614-11620.	3.3	2
128	Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 407-416.	4.3	493
129	Size dependent gas sensing properties of spinel iron oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 942-950.	7.8	39
130	Stepwise Thermal and Photothermal Dissociation of a Hierarchical Superaggregate of DNA-Functionalized Gold Nanoparticles. <i>Small</i> , 2011, 7, 1397-1402.	10.0	15
131	Glyco-DNA-Gold Nanoparticles: Lectin-Mediated Assembly and Dual-Stimuli Response. <i>Small</i> , 2011, 7, 1954-1960.	10.0	14
132	The Role of Oxidative Etching in the Synthesis of Ultrathin Single-Crystalline Au Nanowires. <i>Chemistry - A European Journal</i> , 2011, 17, 9503-9507.	3.3	22
133	A numerical model of the fracture healing process that describes tissue development and revascularisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 79-93.	1.6	74
134	Zeolite H-ZSM-5: A Microporous Proton Conductor for the in situ Monitoring of DeNOx-SCR. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1330, 30301.	0.1	6
135	Electrical Properties of Thin Layers Consisting of Surface Functionalized Silicon Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1359, 199.	0.1	0
136	Patterned self-assembly of gold nanoparticles on chemical templates fabricated by soft UV nanoimprint lithography. <i>Nanotechnology</i> , 2011, 22, 295301.	2.6	32
137	Electrical properties of surface functionalized silicon nanoparticles. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1367-1375.	1.9	14
138	NH ₃ -TPD measurements using a zeolite-based sensor. <i>Measurement Science and Technology</i> , 2010, 21, 027003.	2.6	25
139	Electrical characterization of single biphenyl-propanethiol capped 4nm Au nanoparticles. , 2010, , .		1
140	Influence of the fixation stability on the healing time - A numerical study of a patient-specific fracture healing process. <i>Clinical Biomechanics</i> , 2010, 25, 606-612.	1.2	62
141	On the application potential of gold nanoparticles in nanoelectronics and biomedicine. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1405-1453.	3.4	230
142	Electronic transport properties of individual 4,4-bis(mercaptoalkyl)-biphenyl derivatives measured in STM-based break junctions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10518.	2.8	10
143	Controlled Nucleation of DNA Metallization. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 219-223.	13.8	116
144	Sulfonated poly(ether ether ketone)-silica membranes doped with phosphotungstic acid. Morphology and proton conductivity. <i>Journal of Membrane Science</i> , 2009, 326, 45-57.	8.2	67

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