

Ulrich Simon

List of Publications by Year in descending order

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175
papers

11,434
citations

47006

47
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103
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all docs

176
docs citations

176
times ranked

15623
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Dependent Cytotoxicity of Gold Nanoparticles. <i>Small</i> , 2007, 3, 1941-1949.	10.0	1,617
2	Metal and Metal Oxide Nanoparticles in Chemiresistors: Does the Nanoscale Matter?. <i>Small</i> , 2006, 2, 36-50.	10.0	1,238
3	Metal and Metal Oxide Nanoparticles in Chemiresistors: Does the Nanoscale Matter?. <i>Small</i> , 2006, 2, 301-301.	10.0	847
4	Gold Nanoparticles of Diameter 1.4%nm Trigger Necrosis by Oxidative Stress and Mitochondrial Damage. <i>Small</i> , 2009, 5, 2067-2076.	10.0	685
5	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
6	Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. <i>Nanotoxicology</i> , 2012, 6, 36-46.	3.0	313
7	The acid properties of H-ZSM-5 as studied by NH ₃ -TPD and ²⁷ Al-MAS-NMR spectroscopy. <i>Applied Catalysis A: General</i> , 2007, 328, 174-182.	4.3	312
8	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
9	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
10	Charge Transport in Nanoparticle Arrangements. <i>Advanced Materials</i> , 1998, 10, 1487-1492.	21.0	158
11	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
12	The Application of Au ₅₅ Clusters as Quantum Dots. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 250-254.	4.4	132
13	Trabecular bone fracture healing simulation with finite element analysis and fuzzy logic. <i>Journal of Biomechanics</i> , 2005, 38, 2440-2450.	2.1	131
14	Crystal Structure, Electrochemical and Optical Properties of [Au ₉ (PPh ₃) ₈](NO ₃) ₃ . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 106-111.	2.0	127
15	DNA-Based Assembly of Metal Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3641-3655.	2.0	116
16	Chain-like assembly of gold nanoparticles on artificial DNA templates via "click chemistry". <i>Chemical Communications</i> , 2008, , 169-171.	4.1	116
17	Controlled Nucleation of DNA Metallization. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 219-223.	13.8	116
18	Formation of Bimetallic Ag-Au Nanowires by Metallization of Artificial DNA Duplexes. <i>Small</i> , 2007, 3, 1049-1055.	10.0	106

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19	In vivo nanotoxicity testing using the zebrafish embryo assay. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3918.	5.8	104
20	Solvate-Supported Proton Transport in Zeolites. <i>ChemPhysChem</i> , 2004, 5, 465-472.	2.1	95
21	3D Structures of Responsive Nanocompartmentalized Microgels. <i>Nano Letters</i> , 2016, 16, 7295-7301.	9.1	90
22	Toxic effects and biodistribution of ultrasmall gold nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 3011-3037.	4.2	87
23	Development and working principle of an ammonia gas sensor based on a refined model for solvate supported proton transport in zeolites. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5195-5198.	2.8	84
24	[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
25	Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. <i>Nanoscale</i> , 2013, 5, 6224.	5.6	82
26	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015, 11, 3183-3193.	10.0	72
27	Translational proton motion in zeolite H-ZSM-5. Energy barriers and jump rates from DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5207-5216.	2.8	71
28	Enhancement of capacitive deionization capacity of hierarchical porous carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12730-12737.	10.3	69
29	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
30	Design Strategies for Multielectrode Arrays Applicable for High-Throughput Impedance Spectroscopy on Novel Gas Sensor Materials. <i>ACS Combinatorial Science</i> , 2002, 4, 511-515.	3.3	67
31	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
32	Gas sensing properties of volume-doped CoTiO ₃ synthesized via polyol method. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 595-603.	7.8	65
33	The effects of gold nanoparticles functionalized with β -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
34	Differential hERG ion channel activity of ultrasmall gold nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8004-8009.	7.1	63
35	Bifunctional DNA-gold nanoparticle conjugates as building blocks for the self-assembly of cross-linked particle layers. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 995-999.	2.1	62
36	Reversible Photothermal Melting of DNA in DNA-Gold Nanoparticle Networks. <i>Small</i> , 2008, 4, 607-610.	10.0	62

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37	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
38	Microgel Size Modulation by Electrochemical Switching. <i>Chemistry of Materials</i> , 2015, 27, 7306-7312.	6.7	61
39	High throughput screening of the propylene and ethanol sensing properties of rare-earth orthoferrites and orthochromites. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 181-186.	7.8	58
40	Preparation and gas sensing properties of nanocrystalline La-doped CoTiO ₃ . <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 110-118.	7.8	56
41	STM Study of Mixed Alkanethiol/Biphenylthiol Self-Assembled Monolayers on Au(111). <i>Langmuir</i> , 2006, 22, 3021-3027.	3.5	53
42	A Missing Link in Undecagold Cluster Chemistry: Single-Crystal X-ray Analysis of [Au ₁₁ (PPh ₃) ₇ Cl ₃]. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2002-2006.	2.0	52
43	Functionalization of silicon nanoparticles via hydrosilylation with 1-alkenes. <i>Colloid and Polymer Science</i> , 2007, 285, 729-736.	2.1	51
44	Disadvantages of interfragmentary shear on fracture healing"mechanical insights through numerical simulation. <i>Journal of Orthopaedic Research</i> , 2014, 32, 865-872.	2.3	51
45	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. <i>Analytical Chemistry</i> , 2017, 89, 6091-6098.	6.5	51
46	Chemical tailoring of the charging energy in metal cluster arrangements by use of bifunctional spacer molecules. <i>Journal of Materials Chemistry</i> , 1998, 8, 517-518.	6.7	48
47	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. <i>Macromolecular Rapid Communications</i> , 2013, 34, 855-860.	3.9	48
48	High-Sensitivity Real-Time Analysis of Nanoparticle Toxicity in Green Fluorescent Protein-Expressing Zebrafish. <i>Small</i> , 2013, 9, 863-869.	10.0	47
49	Numerical Simulation of Callus Healing for Optimization of Fracture Fixation Stiffness. <i>PLoS ONE</i> , 2014, 9, e101370.	2.5	47
50	K ₃ Sb ₇ I ₁₀ O ₉ Se ₃ · 3 H ₂ O: The First Crystalline Nanoporous Material with a Photo-Semiconducting Host Structure. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1121-1124.	4.4	44
51	High-Throughput Method for the Impedance Spectroscopic Characterization of Resistive Gas Sensors. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 752-754.	13.8	44
52	Correlation of TPD and impedance measurements on the desorption of NH ₃ from zeolite H-ZSM-5. <i>Solid State Ionics</i> , 2008, 179, 1968-1973.	2.7	44
53	Features of Transport in Ultrathin Gold Nanowire Structures. <i>Small</i> , 2013, 9, 846-852.	10.0	44
54	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

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55	Transmission electron microscopic and small angle X-ray diffraction investigations of Au ₅₅ (PPh ₃) ₁₂ Cl ₆ microcrystals. Chemical Communications, 1999, , 1303-1304.	4.1	42
56	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
57	Deformation of Microgels at Solid-Liquid Interfaces Visualized in Three-Dimension. Nano Letters, 2019, 19, 8862-8867.	9.1	42
58	A Flexible Database for Combinatorial and High-Throughput Materials Science. QSAR and Combinatorial Science, 2005, 24, 22-28.	1.4	40
59	Zeolite based trace humidity sensor for high temperature applications in hydrogen atmosphere. Sensors and Actuators B: Chemical, 2008, 134, 171-174.	7.8	40
60	Multidentate thioether ligands coating gold nanoparticles. Chemical Communications, 2008, , 3438.	4.1	40
61	Size dependent gas sensing properties of spinel iron oxide nanoparticles. Sensors and Actuators B: Chemical, 2011, 160, 942-950.	7.8	39
62	Detection of the ammonia loading of a Cu Chabazite SCR catalyst by a radio frequency-based method. Sensors and Actuators B: Chemical, 2014, 205, 88-93.	7.8	39
63	A novel model to study metaphyseal bone healing under defined biomechanical conditions. Archives of Orthopaedic and Trauma Surgery, 2009, 129, 923-928.	2.4	38
64	Selective Packaging of Ferricyanide within Thermoresponsive Microgels. Journal of Physical Chemistry C, 2014, 118, 26199-26211.	3.1	38
65	Formation of electrically conducting DNA-assembled gold nanoparticle monolayers. Journal of Materials Chemistry, 2006, 16, 1338.	6.7	35
66	Function follows form: shape complementarity and nanoparticle toxicity. Nanomedicine, 2008, 3, 601-603.	3.3	35
67	Ordered arrays of silicon pillars with controlled height and aspect ratio. Nanotechnology, 2007, 18, 305307.	2.6	33
68	Field-Emission Resonances at Tip-Enhanced Surface-Enhanced Raman Scattering-Mercaptoalkyl Ferrocene/Au Interfaces Studied by STM. Small, 2009, 5, 496-502.	10.0	33
69	Preparation of Nanosized Perovskite-type Oxides via Polyol Method. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 2083-2089.	1.2	32
70	Photothermal Control of the Activity of HRP-Functionalized Gold Nanoparticles. Small, 2009, 5, 2549-2553.	10.0	32
71	The effect of Cu and Fe cations on NH ₃ -supported proton transport in DeNO _x -SCR zeolite catalysts. Catalysis Science and Technology, 2016, 6, 3362-3366.	4.1	32
72	Assembly of DNA-functionalized gold nanoparticles studied by UV/Vis-spectroscopy and dynamic light scattering. Physical Chemistry Chemical Physics, 2008, 10, 1870.	2.8	31

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73	Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties. <i>Small</i> , 2012, 8, 3357-3367.	10.0	30
74	Correlating the Integral Sensing Properties of Zeolites with Molecular Processes by Combining Broadband Impedance and DRIFT Spectroscopyâ€”A New Approach for Bridging the Scales. <i>Sensors</i> , 2015, 15, 28915-28941.	3.8	30
75	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
76	In situ nanomanipulation system for electrical measurements in SEM. <i>Measurement Science and Technology</i> , 2007, 18, N84-N89.	2.6	28
77	Zeolites as nanoporous, gas-sensitive materials for in situ monitoring of DeNO _x -SCR. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 667-673.	2.8	28
78	Advances in high throughput screening of gas sensing materials. <i>Applied Surface Science</i> , 2007, 254, 669-676.	6.1	27
79	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
80	Workflow for High Throughput Screening of Gas Sensing Materials. <i>Sensors</i> , 2006, 6, 298-307.	3.8	26
81	Surface â€œClickâ€•Reaction of DNA followed by Directed Metalization for the Construction of Contactable Conducting Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7586-7588.	13.8	26
82	Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes. <i>Electrochimica Acta</i> , 2017, 232, 98-105.	5.2	26
83	Low Loading Pt Cathode Catalysts for Direct Methanol Fuel Cell Derived from the Particle Size Effect. <i>Chemistry of Materials</i> , 2007, 19, 3370-3372.	6.7	25
84	Metal nanoparticleâ€“DNA hybrids â€“ from assembly towards functional conjugates. <i>Journal of Materials Chemistry</i> , 2009, 19, 1518.	6.7	25
85	NH ₃ -TPD measurements using a zeolite-based sensor. <i>Measurement Science and Technology</i> , 2010, 21, 027003.	2.6	25
86	Construction of 6-thioguanine and 6-mercaptopurine carriers based on Î²cyclodextrins and gold nanoparticles. <i>Carbohydrate Polymers</i> , 2017, 177, 22-31.	10.2	25
87	Wet Chemical Synthesis and Screening of Thick Porous Oxide Films for Resistive Gas Sensing Applications. <i>Sensors</i> , 2006, 6, 1568-1586.	3.8	24
88	Size-dependent multispectral photoacoustic response of solid and hollow gold nanoparticles. <i>Nanotechnology</i> , 2012, 23, 225707.	2.6	24
89	Electrical Transport through Single Nanoparticles and Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20657-20665.	3.1	24
90	Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles. <i>Small</i> , 2015, 11, 6444-6456.	10.0	24

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91	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
92	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
93	Structure-Property Relations in Au ₅₅ Cluster Layers Studied by Temperature-Dependent Impedance Measurements. <i>ChemPhysChem</i> , 2001, 2, 321-325.	2.1	23
94	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
95	Reactivity and Properties of [Au ⁺ Bi ³⁺ ...OMo ⁶⁺] _n Chains. <i>Inorganic Chemistry</i> , 2006, 45, 9020-9031.	4.0	22
96	Scanning Tunneling Microscopy and Spectroscopy Studies of 4-Methyl-4'-mercaptoalkylbiphenyls on Au(111)-(1Å ⁻¹). <i>ChemPhysChem</i> , 2007, 8, 1037-1048.	2.1	22
97	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
98	Electrically Conducting Nanopatterns Formed by Chemical e-Beam Lithography via Gold Nanoparticle Seeds. <i>Langmuir</i> , 2012, 28, 2448-2454.	3.5	22
99	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
100	Oxygen ion conductivity of platinum-impregnated stabilized zirconia in bulk and microporous materials. <i>Advanced Materials</i> , 1996, 8, 424-427.	21.0	20
101	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
102	Quantised double layer charging of monolayer-protected clusters in a room temperature ionic liquid. <i>Electrochimica Acta</i> , 2009, 54, 5006-5010.	5.2	19
103	Covalent Cargo Loading to Molecular Shuttles via Copper-free "Click Chemistry". <i>Biomacromolecules</i> , 2012, 13, 3908-3911.	5.4	19
104	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
105	Structural ordering of ferrocenylalkanethiol monolayers on Au(111) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2009, 603, 716-722.	1.9	18
106	Bonding them all. <i>Nature Materials</i> , 2013, 12, 694-696.	27.5	18
107	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
108	Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. <i>RSC Advances</i> , 2015, 5, 39252-39262.	3.6	18

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109	Controlling microgel deformation <i>via</i> deposition method and surface functionalization of solid supports. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4927-4934.	2.8	18
110	High-throughput experimentation in resistive gas sensor materials development. <i>Journal of Materials Research</i> , 2013, 28, 574-588.	2.6	17
111	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
112	Transformation of nanoporous oxoselenoantimonates into Sb ₂ O ₃ nanoribbons and nanorods. <i>Chemical Communications</i> , 2005, , 5790.	4.1	16
113	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
114	Differential Adsorption of Gold Nanoparticles to Gold/Palladium and Platinum Surfaces. <i>Langmuir</i> , 2014, 30, 574-583.	3.5	16
115	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
116	Stepwise Thermal and Photothermal Dissociation of a Hierarchical Superaggregate of DNA-Functionalized Gold Nanoparticles. <i>Small</i> , 2011, 7, 1397-1402.	10.0	15
117	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
118	Electrical properties of surface functionalized silicon nanoparticles. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1367-1375.	1.9	14
119	Glyco-DNA-Gold Nanoparticles: Lectin-Mediated Assembly and Dual-Stimuli Response. <i>Small</i> , 2011, 7, 1954-1960.	10.0	14
120	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
121	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
122	Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1446-1452.	3.9	14
123	Resistive Switching of Sub-10 nm TiO ₂ Nanoparticle Self-Assembled Monolayers. <i>Nanomaterials</i> , 2017, 7, 370.	4.1	14
124	Secondary-Phase Formation in Spinel-Type LiMn ₂ O ₄ -Cathode Materials for Lithium-Ion Batteries: Quantifying Trace Amounts of Li ₂ MnO ₃ by Electron Paramagnetic Resonance Spectroscopy. <i>Applied Magnetic Resonance</i> , 2018, 49, 415-427.	1.2	14
125	Recent Understanding of Low-Temperature Copper Dynamics in Cu-Chabazite NH ₃ -SCR Catalysts. <i>Catalysts</i> , 2021, 11, 52.	3.5	14
126	Metal clusters in plasma polymer matrices. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2438-2442.	2.8	13

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127	Competing strain relaxation mechanisms in epitaxially grown Pr _{0.48} Ca _{0.52} MnO ₃ on SrTiO ₃ . APL Materials, 2014, 2, 106106.	5.1	12
128	Simulating lateral distraction osteogenesis. PLoS ONE, 2018, 13, e0194500.	2.5	12
129	Self Assembly of Mixed Monolayers of Mercaptoundecylferrocene and Undecanethiol studied by STM. Journal of Physics: Conference Series, 2007, 61, 852-855.	0.4	11
130	In-Situ Electrical Addressing of One-Dimensional Gold Nanoparticle Assemblies. Journal of Nanoscience and Nanotechnology, 2008, 8, 461-465.	0.9	11
131	Dip-pen-based direct writing of conducting silver dots. Journal of Colloid and Interface Science, 2013, 406, 256-262.	9.4	11
132	A new musculoskeletal AnyBody [®] detailed hand model. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 777-787.	1.6	11
133	Hand Motion Capture from a 3D Leap Motion Controller for a Musculoskeletal Dynamic Simulation. Sensors, 2021, 21, 1199.	3.8	11
134	Surface Chemistry of n-Octane Modified Silicon Nanoparticles Analyzed by IR, ¹³ C CPDAS NMR, EELS, and TGA. Journal of Nanoscience and Nanotechnology, 2007, 7, 2818-2822.	0.9	10
135	Striped Phase of Mercaptoalkylferrocenes on Au(111) with a Potential for Nanoscale Surface Patterning. Langmuir, 2008, 24, 4577-4580.	3.5	10
136	Electronic transport properties of individual 4,4'-bis(mercaptoalkyl)-biphenyl derivatives measured in STM-based break junctions. Physical Chemistry Chemical Physics, 2010, 12, 10518.	2.8	10
137	Electrical Characterization of 4-Mercaptophenylamine-Capped Nanoparticles in a Heterometallic Nanoelectrode Gap. Journal of Physical Chemistry C, 2013, 117, 22002-22009.	3.1	10
138	Isolation, Optical Properties and Core Structure of a Water-soluble, Phosphine-stabilized [Au ₉] ³⁺ Cluster. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2013, 68, 569-574.	0.7	10
139	Directed Self-Assembly and Infrared Reflection Absorption Spectroscopy Analysis of Amphiphilic and Zwitterionic Janus Gold Nanoparticles. Langmuir, 2016, 32, 954-962.	3.5	10
140	Single Interdigital Transducer Approach for Gravimetric SAW Sensor Applications in Liquid Environments. Sensors, 2017, 17, 2931.	3.8	10
141	Elucidation of the Active Sites for Monodisperse FePt and Pt Nanocrystal Catalysts for p-WSe ₂ Photocathodes. Journal of Physical Chemistry C, 2020, 124, 11877-11885.	3.1	10
142	Molecular and Electronic Structure of the Cluster [Au ₈ (PPh ₃) ₈](NO ₃) ₂ . European Journal of Inorganic Chemistry, 2016, 2016, 975-981.	2.0	9
143	Au Nanoparticles as Template for Defect Formation in Memristive SrTiO ₃ Thin Films. Nanomaterials, 2018, 8, 869.	4.1	9
144	Perovskite Catalyst for In-Cylinder Coating to Reduce Raw Pollutant Emissions of Internal Combustion Engines. ACS Omega, 2022, 7, 5340-5349.	3.5	9

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145	Impedanzspektroskopische Untersuchungen an Zeolithen mit eingelagerten Metallclustern. Chemie-Ingenieur-Technik, 1995, 67, 583-586.	0.8	8
146	Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives. Structure and Bonding, 2013, , 189-241.	1.0	8
147	Guided immobilisation of single gold nanoparticles by chemical electron beam lithography. Beilstein Journal of Nanotechnology, 2013, 4, 336-344.	2.8	8
148	Differential contrast of gold nanorods in dual-band OCT using spectral multiplexing. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	8
149	In Situ Spectroscopic Studies of Proton Transport in Zeolite Catalysts for NH ₃ -SCR. Catalysts, 2016, 6, 204.	3.5	8
150	Noble Gases Influence the Conductance of Cetineite-Type Nanoporous Semiconductors. Angewandte Chemie - International Edition, 2007, 46, 6372-6375.	13.8	6
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