

Ulrich Simon

List of Publications by Year in descending order

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268
papers

13,298
citations

36303

51
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27406

106
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324
all docs

324
docs citations

324
times ranked

17441
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	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
4	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
5	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
6	The acid properties of H-ZSM-5 as studied by NH ₃ -TPD and 27Al-MAS-NMR spectroscopy. <i>Applied Catalysis A: General</i> , 2007, 328, 174-182.	4.3	312
7	Gold nanoparticles: assembly and electrical properties in 1-3 dimensions. <i>Chemical Communications</i> , 2005, , 697-710.	4.1	272
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	A fascinating new field in colloid science: small ligand-stabilized metal clusters and possible application in microelectronics. <i>Colloid and Polymer Science</i> , 1995, 273, 101-117.	2.1	218
10	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
11	A fascinating new field in colloid science: small ligand-stabilized metal clusters and their possible application in microelectronics. <i>Colloid and Polymer Science</i> , 1995, 273, 202-218.	2.1	187
12	Preparation and Gas Sensing Characteristics of Nanoparticulate p-Type Semiconducting LnFeO ₃ and LnCrO ₃ Materials. <i>Advanced Functional Materials</i> , 2007, 17, 2189-2197.	14.9	165
13	Charge Transport in Nanoparticle Arrangements. <i>Advanced Materials</i> , 1998, 10, 1487-1492.	21.0	158
14	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
15	The Application of Au ₅₅ Clusters as Quantum Dots. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 250-254.	4.4	132
16	Trabecular bone fracture healing simulation with finite element analysis and fuzzy logic. <i>Journal of Biomechanics</i> , 2005, 38, 2440-2450.	2.1	131
17	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
18	Electrical properties of nanoscaled host/guest compounds. <i>Microporous and Mesoporous Materials</i> , 2000, 41, 1-36.	4.4	123

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19	DNA-Based Assembly of Metal Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3641-3655.	2.0	116
20	Chain-like assembly of gold nanoparticles on artificial DNA templates via "click chemistry"™. <i>Chemical Communications</i> , 2008, , 169-171.	4.1	116
21	Controlled Nucleation of DNA Metallization. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 219-223.	13.8	116
22	Formation of Bimetallic Ag-Au Nanowires by Metallization of Artificial DNA Duplexes. <i>Small</i> , 2007, 3, 1049-1055.	10.0	106
23	In vivo nanotoxicity testing using the zebrafish embryo assay. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3918.	5.8	104
24	Nanodispersions of conducting particles: preparation, microstructure and dielectric properties. <i>Colloid and Polymer Science</i> , 1999, 277, 2-14.	2.1	96
25	Solvate-Supported Proton Transport in Zeolites. <i>ChemPhysChem</i> , 2004, 5, 465-472.	2.1	95
26	Site-selective immobilization of gold nanoparticles functionalized with DNA oligomers. <i>Colloid and Polymer Science</i> , 2001, 279, 68-72.	2.1	92
27	3D Structures of Responsive Nanocompartmentalized Microgels. <i>Nano Letters</i> , 2016, 16, 7295-7301.	9.1	90
28	Toxic effects and biodistribution of ultrasmall gold nanoparticles. <i>Archives of Toxicology</i> , 2017, 91, 3011-3037.	4.2	87
29	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
30	[Au ₁₄ (PPh ₃) 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
31	Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. <i>Nanoscale</i> , 2013, 5, 6224.	5.6	82
32	The effect of NH ₃ on the ionic conductivity of dehydrated zeolites Na beta and H beta. <i>Microporous and Mesoporous Materials</i> , 1998, 21, 111-116.	4.4	75
33	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
34	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015, 11, 3183-3193.	10.0	72
35	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
36	Enhancement of capacitive deionization capacity of hierarchical porous carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12730-12737.	10.3	69

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37	Proton mobility in H-ZSM5 studied by impedance spectroscopy. <i>Solid State Ionics</i> , 1999, 118, 311-316.	2.7	68
38	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
39	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
40	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
41	Charge-Transfer Mechanisms between Gold Clusters. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1121-1127.	2.0	65
42	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
43	The effects of gold nanoparticles functionalized with A 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
44	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
45	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
46	Reversible Photothermal Melting of DNA in DNA-Gold Nanoparticle Networks. <i>Small</i> , 2008, 4, 607-610.	10.0	62
47	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
48	Microgel Size Modulation by Electrochemical Switching. <i>Chemistry of Materials</i> , 2015, 27, 7306-7312.	6.7	61
49	Cation-Cation Interaction in Dehydrated Zeolites X and Y Monitored by Modulus Spectroscopy. <i>Journal of Porous Materials</i> , 1999, 6, 33-40.	2.6	60
50	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
51	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
52	STM Investigations on Compact Au ₅₅ Cluster Pellets. <i>Europhysics Letters</i> , 1994, 28, 641-646.	2.0	53
53	STM Study of Mixed Alkanethiol/Biphenylthiol Self-Assembled Monolayers on Au(111). <i>Langmuir</i> , 2006, 22, 3021-3027.	3.5	53
54	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

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55	Functionalization of silicon nanoparticles via hydrosilylation with 1-alkenes. <i>Colloid and Polymer Science</i> , 2007, 285, 729-736.	2.1	51
56	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. <i>Analytical Chemistry</i> , 2017, 89, 6091-6098.	6.5	51
57	Modern chemical synthesis methods towards low-dimensional phase change structures in the GeSbTe material system. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2015, 61, 27-45.	4.0	50
58	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
59	Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes. <i>Macromolecular Rapid Communications</i> , 2013, 34, 855-860.	3.9	48
60	High-Sensitivity Real-Time Analysis of Nanoparticle Toxicity in Green Fluorescent Protein-Expressing Zebrafish. <i>Small</i> , 2013, 9, 863-869.	10.0	47
61	Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. <i>Nature Communications</i> , 2020, 11, 652.	12.8	46
62	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
63	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
64	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
65	Features of Transport in Ultrathin Gold Nanowire Structures. <i>Small</i> , 2013, 9, 846-852.	10.0	44
66	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
67	Transmission electron microscopic and small angle X-ray diffraction investigations of Au ₅₅ (PPh ₃) ₁₂ Cl ₆ microcrystals. <i>Chemical Communications</i> , 1999, , 1303-1304.	4.1	42
68	Prediction of fracture healing under axial loading, shear loading and bending is possible using distortional and dilatational strains as determining mechanical stimuli. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130389.	3.4	42
69	Deformation of Microgels at Solid-Liquid Interfaces Visualized in Three-Dimension. <i>Nano Letters</i> , 2019, 19, 8862-8867.	9.1	42
70	High-Throughput Gas Sensing Screening of Surface-Doped In ₂ O ₃ . <i>ACS Combinatorial Science</i> , 2007, 9, 53-61.	3.3	41
71	A Flexible Database for Combinatorial and High-Throughput Materials Science. <i>QSAR and Combinatorial Science</i> , 2005, 24, 22-28.	1.4	40
72	Zeolite based trace humidity sensor for high temperature applications in hydrogen atmosphere. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 171-174.	7.8	40

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73	Multidentate thioether ligands coating gold nanoparticles. <i>Chemical Communications</i> , 2008, , 3438.	4.1	40
74	Size dependent gas sensing properties of spinel iron oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 942-950.	7.8	39
75	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
76	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
77	Selective Packaging of Ferricyanide within Thermoresponsive Microgels. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26199-26211.	3.1	38
78	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
79	Setup for High-Throughput Impedance Screening of Gas-Sensing Materials. <i>ACS Combinatorial Science</i> , 2005, 7, 682-687.	3.3	37
80	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 293-302.	2.9	35
81	Formation of electrically conducting DNA-assembled gold nanoparticle monolayers. <i>Journal of Materials Chemistry</i> , 2006, 16, 1338.	6.7	35
82	Function follows form: shape complementarity and nanoparticle toxicity. <i>Nanomedicine</i> , 2008, 3, 601-603.	3.3	35
83	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
84	Clusters on Clusters: closo-Dodecaborate as a Ligand for Au ₅₅ Clusters. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 2051-2055.	2.0	34
85	Die Verwendung von Au ₅₅ -Clustern als Quantenpunkte. <i>Angewandte Chemie</i> , 1993, 105, 264-267.	2.0	33
86	Self-Assembly of Crosslinked DNA-Gold Nanoparticle Layers Visualized by In-Situ Scanning Force Microscopy. <i>Advanced Materials</i> , 2005, 17, 1643-1647.	21.0	33
87	Ordered arrays of silicon pillars with controlled height and aspect ratio. <i>Nanotechnology</i> , 2007, 18, 305307.	2.6	33
88	Field-Emission Resonances at Tip-Mercaptoalkyl Ferrocene/Au Interfaces Studied by STM. <i>Small</i> , 2009, 5, 496-502.	10.0	33
89	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
90	Preparation of Nanosized Perovskite-type Oxides via Polyol Method. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 2083-2089.	1.2	32

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91	Photothermal Control of the Activity of HRP-Functionalized Gold Nanoparticles. <i>Small</i> , 2009, 5, 2549-2553.	10.0	32
92	Patterned self-assembly of gold nanoparticles on chemical templates fabricated by soft UV nanoimprint lithography. <i>Nanotechnology</i> , 2011, 22, 295301.	2.6	32
93	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
94	Assembly of DNA-functionalized gold nanoparticles studied by UV/Vis-spectroscopy and dynamic light scattering. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1870.	2.8	31
95	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
96	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
97	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
98	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
99	Structure and Electrochemical Characterization of 4-Methyl-4-(n-mercaptoalkyl)biphenyls on Au(111)-(1 Å ⁻¹). <i>Journal of Physical Chemistry C</i> , 2007, 111, 17409-17419.	3.1	29
100	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
101	In situ nanomanipulation system for electrical measurements in SEM. <i>Measurement Science and Technology</i> , 2007, 18, N84-N89.	2.6	28
102	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
103	Advances in high throughput screening of gas sensing materials. <i>Applied Surface Science</i> , 2007, 254, 669-676.	6.1	27
104	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
105	Workflow for High Throughput Screening of Gas Sensing Materials. <i>Sensors</i> , 2006, 6, 298-307.	3.8	26
106	Surface "Click" 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
107	Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes. <i>Electrochimica Acta</i> , 2017, 232, 98-105.	5.2	26
108	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

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109	Metal nanoparticle-DNA hybrids from assembly towards functional conjugates. <i>Journal of Materials Chemistry</i> , 2009, 19, 1518.	6.7	25
110	NH ₃ -TPD measurements using a zeolite-based sensor. <i>Measurement Science and Technology</i> , 2010, 21, 027003.	2.6	25
111	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
112	Electronic Structure of a Novel Class of Nanoporous Materials. <i>Physical Review Letters</i> , 1998, 80, 3316-3319.	7.8	24
113	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
114	Development of Hybrid Polymer Electrolyte Membranes Based on the Semi-Interpenetrating Network Concept. <i>Fuel Cells</i> , 2006, 6, 225-236.	2.4	24
115	Size-dependent multispectral photoacoustic response of solid and hollow gold nanoparticles. <i>Nanotechnology</i> , 2012, 23, 225707.	2.6	24
116	Electrical Transport through Single Nanoparticles and Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20657-20665.	3.1	24
117	Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles. <i>Small</i> , 2015, 11, 6444-6456.	10.0	24
118	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
119	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
120	Structure-Property Relations in Au ₅₅ Cluster Layers Studied by Temperature-Dependent Impedance Measurements. <i>ChemPhysChem</i> , 2001, 2, 321-325.	2.1	23
121	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
122	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
123	K ₃ Sb ₇ III ⁺ O ₉ Se ₃ · 3H ₂ O: das erste kristalline, nanoporöse Material mit photohalbleitender Wirtstruktur. <i>Angewandte Chemie</i> , 1997, 109, 1138-1140.	2.0	22
124	Reactivity and Properties of [Au ⁺ O ²⁻] _n Chains. <i>Inorganic Chemistry</i> , 2006, 45, 9020-9031.	4.0	22
125	Scanning Tunneling Microscopy and Spectroscopy Studies of 4-Methyl-4-(n-mercaptoalkyl)biphenyls on Au(111)-(1 \times 1). <i>ChemPhysChem</i> , 2007, 8, 1037-1048.	2.1	22
126	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

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127	Electrically Conducting Nanopatterns Formed by Chemical e-Beam Lithography via Gold Nanoparticle Seeds. <i>Langmuir</i> , 2012, 28, 2448-2454.	3.5	22
128	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
129	Mobility of NH ₃ -Solvated Cull 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
130	Electrical and optical properties of zeolite γ supported SnO ₂ nanoparticles. <i>Colloid and Polymer Science</i> , 1997, 275, 91-95.	2.1	21
131	Characteristics of Proton Hopping in Zeolite H-ZSM5. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 287-290.	1.5	21
132	The Structure of the First Supramolecular β -Cyclodextrin Complex with an Aliphatic Monofunctional Carboxylic Acid. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4298-4300.	2.4	21
133	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
134	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
135	Oxygen ion conductivity of platinum-impregnated stabilized zirconia in bulk and microporous materials. <i>Advanced Materials</i> , 1996, 8, 424-427.	21.0	20
136	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
137	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
138	Covalent Cargo Loading to Molecular Shuttles via Copper-free "Click Chemistry". <i>Biomacromolecules</i> , 2012, 13, 3908-3911.	5.4	19
139	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
140	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
141	Molecular structure of ferrocenethiol islands embedded into alkanethiol self-assembled monolayers by UHV-STM. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1448-1452.	1.8	18
142	Electrical and Structural Characterization of Biphenylethanethiol SAMs. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6392-6397.	3.1	18
143	Structural ordering of β -ferrocenylalkane-thiol monolayers on Au(111) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2009, 603, 716-722.	1.9	18
144	Bonding them all. <i>Nature Materials</i> , 2013, 12, 694-696.	27.5	18

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146	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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