

Ulrich Simon

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5323729/ulrich-simon-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

311
papers

11,411
citations

49
h-index

98
g-index

324
ext. papers

12,308
ext. citations

5.8
avg, IF

6.3
L-index

#	Paper	IF	Citations
311	Perovskite Catalyst for In-Cylinder Coating to Reduce Raw Pollutant Emissions of Internal Combustion Engines.. <i>ACS Omega</i> , 2022 , 7, 5340-5349	3.9	4
310	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	3	0
309	PTFE Enhances Discharge Performance of Carbon Cathodes in Potassium-Oxygen Batteries**. <i>Batteries and Supercaps</i> , 2021 , 4, 1620	5.6	1
308	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 ²	7.7	2
307	Encapsulation of Au55 Clusters within Surface-Supported Metal-Organic Frameworks for Catalytic Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2021 , 4, 522-528	5.6	5
306	Induced pluripotent stem cell-derived vascular networks to screen nano-bio interactions. <i>Nanoscale Horizons</i> , 2021 , 6, 245-259	10.8	0
305	Recent Understanding of Low-Temperature Copper Dynamics in Cu-Chabazite NH3-SCR Catalysts. <i>Catalysts</i> , 2021 , 11, 52	4	4
304	Composition/Performance Evaluation of Lean NOx Trap Catalysts for Coupling with SCR Technology. <i>ChemCatChem</i> , 2021 , 13, 1787-1805	5.2	4
303	Simulating Metaphyseal Fracture Healing in the Distal Radius. <i>Biomechanics</i> , 2021 , 1, 29-42		3
302	Inhibition Effect of Phosphorus Poisoning on the Dynamics and Redox of Cu Active Sites in a Cu-SSZ-13 NH-SCR Catalyst for NO Reduction. <i>Environmental Science & Technology</i> , 2021 , 55, 12619-12629 ⁸	10.3	8
301	Controlling microgel deformation deposition method and surface functionalization of solid supports. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4927-4934	3.6	2
300	Elucidation of the Active Sites for Monodisperse FePt and Pt Nanocrystal Catalysts for p-WSe2 Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11877-11885	3.8	5
299	Optimizing Discharge Capacity of Graphite Nanosheet Electrodes for Lithium-Oxygen Batteries. <i>Batteries</i> , 2020 , 6, 36	5.7	1
298	Spectroscopic identification and catalytic relevance of NH intermediates in selective NO reduction over Cu-SSZ-13 zeolites. <i>Chemosphere</i> , 2020 , 250, 126272	8.4	14
297	Transport through Redox-Active Ru-Terpyridine Complexes Integrated in Single Nanoparticle Devices. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4881-4889	3.8	4
296	Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. <i>Nature Communications</i> , 2020 , 11, 652	17.4	28
295	Integration of Individual Functionalized Gold Nanoparticles into Nanoelectrode Configurations: Recent Advances. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 3798-3810	2.3	1

294	Tracking mobile active sites and intermediates in NH ₃ -SCR over zeolite catalysts by impedance-based in situ spectroscopy. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 986-994	4.9	12
293	Mechanistic Understanding of Cu-CHA Catalyst as Sensor for Direct NH-SCR Monitoring: The Role of Cu Mobility. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8097-8105	9.5	15
292	Cargo shuttling by electrochemical switching of core-shell microgels obtained by a facile one-shot polymerization. <i>Chemical Science</i> , 2019 , 10, 1844-1856	9.4	24
291	Stepwise Growth of Ruthenium Terpyridine Complexes on Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6537-6548	3.8	8
290	Controlling the Electronic Contact at the Terpyridine/Metal Interface. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21367-21375	3.8	9
289	Size-Tailored Biocompatible FePt Nanoparticles for Dual / Magnetic Resonance Imaging Contrast Enhancement. <i>Langmuir</i> , 2019 , 35, 10424-10434	4	9
288	Deformation of Microgels at Solid-Liquid Interfaces Visualized in Three-Dimension. <i>Nano Letters</i> , 2019 , 19, 8862-8867	11.5	23
287	Anomalous Discharge Behavior of Graphite Nanosheet Electrodes in Lithium-Oxygen Batteries. <i>Materials</i> , 2019 , 13,	3.5	5
286	Storage and Oxidation of Oxygen-Free and Oxygenated Hydrocarbons on a PtPd Series Production Oxidation Catalyst. <i>Topics in Catalysis</i> , 2019 , 62, 376-385	2.3	3
285	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	0.8	7
284	Ion specific effects on the immobilisation of charged gold nanoparticles on metal surfaces.. <i>RSC Advances</i> , 2018 , 8, 1717-1724	3.7	3
283	CLPFFD-PEG functionalized NIR-absorbing hollow gold nanospheres and gold nanorods inhibit amyloid aggregation. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 2432-2443	7.3	16
282	Electrochemical and Electronic Charge Transport Properties of Ni-Doped LiMn ₂ O ₄ Spinel Obtained from Polyol-Mediated Synthesis. <i>Materials</i> , 2018 , 11,	3.5	11
281	Simulating lateral distraction osteogenesis. <i>PLoS ONE</i> , 2018 , 13, e0194500	3.7	8
280	Sb ₂ Te 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	5.6	7
279	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	2.1	7
278	Au Nanoparticles as Template for Defect Formation in Memristive SrTiO ₃ Thin Films. <i>Nanomaterials</i> , 2018 , 8,	5.4	5
277	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	4	15

276	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	21.8	21
275	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	2.3	15
274	Influence of Synthesis, Dopants and Cycling Conditions on the Cycling Stability of Doped LiNi _{0.5} Mn _{1.5} O ₄ Spinels. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6349-A6358	3.9	14
273	Electrochemical stability and electron transfer across 4-methyl-4'-(n-mercaptoalkyl) biphenyl monolayers on Au(100)-(111) electrodes in 1-hexyl-3-methylimidazolium hexafluorophosphate ionic liquid. <i>Electrochimica Acta</i> , 2017 , 231, 44-52	6.7	2
272	Elucidation and Comparison of the Effect of LiTFSI and LiNO Salts on Discharge Chemistry in Nonaqueous Li-O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19319-19325	9.5	21
271	Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. <i>Analytical Chemistry</i> , 2017 , 89, 6091-6098	7.8	36
270	Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes. <i>Electrochimica Acta</i> , 2017 , 232, 98-105	6.7	21
269	Surface coupling strength of gold nanoparticles affects cytotoxicity towards neurons. <i>Biomaterials Science</i> , 2017 , 5, 1051-1060	7.4	5
268	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 ⁶		49
267	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	7.3	24
266	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	13.1	107
265	Gold nanoparticles stabilized with cyclodextrin-2-amino-4-(4-chlorophenyl)thiazole complex: A novel system for drug transport. <i>PLoS ONE</i> , 2017 , 12, e0185652	3.7	8
264	Construction of 6-thioguanine and 6-mercaptopurine carriers based on cyclodextrins and gold nanoparticles. <i>Carbohydrate Polymers</i> , 2017 , 177, 22-31	10.3	20
263	Toxic effects and biodistribution of ultrasmall gold nanoparticles. <i>Archives of Toxicology</i> , 2017 , 91, 3011-3037	3.37	58
262	Resistive Switching of Sub-10 nm TiO ₂ Nanoparticle Self-Assembled Monolayers. <i>Nanomaterials</i> , 2017 , 7,	5.4	10
261	Single Interdigital Transducer Approach for Gravimetric SAW Sensor Applications in Liquid Environments. <i>Sensors</i> , 2017 , 17,	3.8	9
260	Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 1446-52	4.8	12
259	Assessing the Intracellular Integrity of Phosphine-Stabilized Ultrasmall Cytotoxic Gold Nanoparticles Enabled by Fluorescence Labeling. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3118-3128	10.1	5

258	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	3.8	22
257	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	8.5	17
256	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	8.5	18
255	Directed Self-Assembly and Infrared Reflection Absorption Spectroscopy Analysis of Amphiphilic and Zwitterionic Janus Gold Nanoparticles. <i>Langmuir</i> , 2016 , 32, 954-62	4	10
254	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, 1409-19	6	15
253	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	7.3	22
252	In Situ Spectroscopic Studies of Proton Transport in Zeolite Catalysts for NH ₃ -SCR. <i>Catalysts</i> , 2016 , 6, 204	4	8
251	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	2.3	8
250	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	10.1	
249	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	5.5	22
248	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	13.1	46
247	3D Structures of Responsive Nanocompartmentalized Microgels. <i>Nano Letters</i> , 2016 , 16, 7295-7301	11.5	75
246	Solvothermally Synthesized Sb ₂ Te ₃ Platelets Show Unexpected Optical Contrasts in Mid-Infrared Near-Field Scanning Microscopy. <i>Nano Letters</i> , 2015 , 15, 2787-93	11.5	18
245	Enhancement of capacitive deionization capacity of hierarchical porous carbon. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12730-12737	13	62
244	Microgel Size Modulation by Electrochemical Switching. <i>Chemistry of Materials</i> , 2015 , 27, 7306-7312	9.6	54
243	Zirconium phosphate-based porous heterostructures: A new class of materials for ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2015 , 217, 175-180	8.5	2
242	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		8
241	Resistive Switching: Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles (Small 48/2015). <i>Small</i> , 2015 , 11, 6504-6504	11	

240	Form ohne Struktur: Ein verblüffender Bildungsmechanismus des solvothermal hergestellten Phasenwechselmaterials Sb ₂ Te ₃ . <i>Angewandte Chemie</i> , 2015 , 127, 6732-6736	3.6	4
239	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, 6632-6	16.4	17
238	Resistive Switching of Individual, Chemically Synthesized TiO ₂ Nanoparticles. <i>Small</i> , 2015 , 11, 6444-56	11	22
237	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, 28915-41	3.8	25
236	DNA-Induced Nanoparticle Assembly 2015 , 259-292		
235	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. <i>Small</i> , 2015 , 11, 3183-93	11	61
234	Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. <i>RSC Advances</i> , 2015 , 5, 39252-39262	3.7	15
233	Polydiacetylene stabilized gold nanoparticles [extraordinary high stability and integration into a nanoelectrode device. <i>RSC Advances</i> , 2015 , 5, 102981-102992	3.7	7
232	Modern chemical synthesis methods towards low-dimensional phase change structures in the Ge ₂ Sb ₂ Te ₅ material system. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2015 , 61, 27-45	3.5	39
231	Probing structural dynamics of an artificial protein cage using high-speed atomic force microscopy. <i>Nano Letters</i> , 2015 , 15, 1331-5	11.5	24
230	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	1.6	30
229	Differential adsorption of gold nanoparticles to gold/palladium and platinum surfaces. <i>Langmuir</i> , 2014 , 30, 574-83	4	13
228	Air-blood barrier translocation of tracheally instilled gold nanoparticles inversely depends on particle size. <i>ACS Nano</i> , 2014 , 8, 222-33	16.7	167
227	Challenging material patterning: fine lithography on coarse substrates. <i>Scanning</i> , 2014 , 36, 362-7	1.6	
226	Selective Packaging of Ferricyanide within Thermoresponsive Microgels. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26199-26211	3.8	31
225	Enhanced photoacoustic signal from DNA assembled gold nanoparticle networks. <i>Materials Research Express</i> , 2014 , 1, 045015	1.7	4
224	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	8.5	36
223	Synthesis and Internal Structure of Finite-Size DNA-Gold Nanoparticle Assemblies. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7174-7184	3.8	14

222	Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. <i>Nanoscale</i> , 2014 , 6, 5146-55	7.7	25
221	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	5.7	10
220	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	3.8	15
219	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	8.5	12
218	Nanoparticle self-assembly: Bonding them all. <i>Nature Materials</i> , 2013 , 12, 694-6	27	17
217	In Vivo Nanotoxicity Testing using the Zebrafish Embryo Assay. <i>Journal of Materials Chemistry B</i> , 2013 , 1,	7.3	89
216	Electrical Characterization of 4-Mercaptophenylamine-Capped Nanoparticles in a Heterometallic Nanoelectrode Gap. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22002-22009	3.8	10
215	Cellular uptake of fluorophore-labeled glyco-DNA-gold nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	1
214	Combinatorial Approaches for Synthesis of Metal Oxides: Processing and Sensing Application 2013 , 117-166		
213	Features of transport in ultrathin gold nanowire structures. <i>Small</i> , 2013 , 9, 846-52	11	40
212	Size- and Ligand-Specific Bioresponse of Gold Clusters and Nanoparticles: Challenges and Perspectives. <i>Structure and Bonding</i> , 2013 , 189-241	0.9	6
211	[Au ₁₄ (PPh ₃) ₈ (NO ₃) ₄]: an example of a new class of Au(NO ₃)-ligated superatom complexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3529-32	16.4	78
210	High-sensitivity real-time analysis of nanoparticle toxicity in green fluorescent protein-expressing zebrafish. <i>Small</i> , 2013 , 9, 863-9	11	41
209	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	2.3	44
208	Dip-pen-based direct writing of conducting silver dots. <i>Journal of Colloid and Interface Science</i> , 2013 , 406, 256-62	9.3	10
207	Ultrathin Nanowires: Features of Transport in Ultrathin Gold Nanowire Structures (Small 6/2013). <i>Small</i> , 2013 , 9, 960-960	11	
206	Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. <i>Nanoscale</i> , 2013 , 5, 6224-42	7.7	72
205	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	1	9

204	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, 8004-9	11.5	53
203	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	4.1	34
202	High-throughput experimentation in resistive gas sensor materials development. <i>Journal of Materials Research</i> , 2013 , 28, 574-588	2.5	13
201	Spontaneous assembly of miktoarm stars into vesicular interpolyelectrolyte complexes. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 855-60	4.8	44
200	[Au ₁₄ (PPh ₃) ₈ (NO ₃) ₄]: Vertreter einer neuen Klasse Au(NO ₃)- stabilisierter Superatomkomplexe. <i>Angewandte Chemie</i> , 2013 , 125, 3614-3617	3.6	31
199	Guided immobilisation of single gold nanoparticles by chemical electron beam lithography. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 336-44	3	8
198	Covalent cargo loading to molecular shuttles via copper-free "click chemistry". <i>Biomacromolecules</i> , 2012 , 13, 3908-11	6.9	17
197	Neuron Adhesion: Control of Cell Adhesion and Neurite Outgrowth by Patterned Gold Nanoparticles with Tunable Attractive or Repulsive Surface Properties (Small 21/2012). <i>Small</i> , 2012 , 8, 3226-3226	11	
196	Electrically conducting nanopatterns formed by chemical e-beam lithography via gold nanoparticle seeds. <i>Langmuir</i> , 2012 , 28, 2448-54	4	17
195	Electrical Transport through Single Nanoparticles and Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20657-20665	3.8	24
194	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	5.3	270
193	Solid Phase Supported Click Chemistry Approach for the Preparation of Water Soluble Gold Nanoparticle Dimers. <i>Journal of Cluster Science</i> , 2012 , 23, 1049-1059	3	8
192	Zeolites as nanoporous, gas-sensitive materials for in situ monitoring of DeNO(x)-SCR. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 667-73	3	23
191	Highly n-type doped InGaN films for efficient direct solar hydrogen generation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 964-967		6
190	Control of cell adhesion and neurite outgrowth by patterned gold nanoparticles with tunable attractive or repulsive surface properties. <i>Small</i> , 2012 , 8, 3357-67	11	27
189	Herstellung leitfähiger Nanostrukturen durch Oberflächen- Klickreaktion und kontrollierte Metallisierung von DNA. <i>Angewandte Chemie</i> , 2012 , 124, 7705-7708	3.6	
188	Surface "click" reaction of DNA followed by directed metalization for the construction of contactable conducting nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7586-8	16.4	26
187	Hierarchical structures of carbon nanotubes and arrays of chromium-capped silicon nanopillars: formation and electrical properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 11614-20	4.8	2

186	Size-dependent multispectral photoacoustic response of solid and hollow gold nanoparticles. <i>Nanotechnology</i> , 2012 , 23, 225707	3.4	24
185	Size dependent photoacoustic signal response of gold nanoparticles using a multispectral laser diode system 2012 ,		1
184	Preferential adhesion of silver nanoparticles onto crystal faces of alpha-cyclodextrin/carboxylic acids inclusion compounds. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8929-34	1.3	6
183	Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011 , 77, 407-16	5.7	424
182	Size dependent gas sensing properties of spinel iron oxide nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 942-950	8.5	34
181	Stepwise thermal and photothermal dissociation of a hierarchical superaggregate of DNA-functionalized gold nanoparticles. <i>Small</i> , 2011 , 7, 1397-402	11	15
180	Glyco-DNA-gold nanoparticles: lectin-mediated assembly and dual-stimuli response. <i>Small</i> , 2011 , 7, 1954-60	11	12
179	The role of oxidative etching in the synthesis of ultrathin single-crystalline Au nanowires. <i>Chemistry - A European Journal</i> , 2011 , 17, 9503-7	4.8	19
178	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	2.1	57
177	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		6
176	Electrical Properties of Thin Layers Consisting of Surface Functionalized Silicon Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1359, 199		
175	Patterned self-assembly of gold nanoparticles on chemical templates fabricated by soft UV nanoimprint lithography. <i>Nanotechnology</i> , 2011 , 22, 295301	3.4	30
174	NH3-TPD measurements using a zeolite-based sensor. <i>Measurement Science and Technology</i> , 2010 , 21, 027003	2	23
173	Electrical characterization of single biphenyl-propanethiol capped 4nm Au nanoparticles 2010 ,		1
172	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, 606-12	2.2	54
171	On the application potential of gold nanoparticles in nanoelectronics and biomedicine. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 1405-53	3	208
170	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, 10518-24	3.6	8
169	Electrical properties of surface functionalized silicon nanoparticles. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1367-1375	2.3	13

168	Gesteuerte Keimbildung bei der DNA-Metallisierung. <i>Angewandte Chemie</i> , 2009 , 121, 225-229	3.6	34
167	Controlled nucleation of DNA metallization. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 219-231	6.4	106
166	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	9.6	58
165	Quantised double layer charging of monolayer-protected clusters in a room temperature ionic liquid. <i>Electrochimica Acta</i> , 2009 , 54, 5006-5010	6.7	19
164	Field-emission resonances at tip/alpha,omega-mercaptoalkyl ferrocene/Au interfaces studied by STM. <i>Small</i> , 2009 , 5, 496-502	11	30
163	Gold nanoparticles of diameter 1.4 nm trigger necrosis by oxidative stress and mitochondrial damage. <i>Small</i> , 2009 , 5, 2067-76	11	595
162	Photothermal control of the activity of HRP-functionalized gold nanoparticles. <i>Small</i> , 2009 , 5, 2549-53	11	30
161	Structural ordering of ferrocenylalkanethiol monolayers on Au(111) studied by scanning tunneling microscopy. <i>Surface Science</i> , 2009 , 603, 716-722	1.8	15
160	Preparation and measurement of combinatorial screen printed libraries for the electrochemical analysis of liquids. <i>ACS Combinatorial Science</i> , 2009 , 11, 138-42		6
159	Metal nanoparticle-DNA hybrids from assembly towards functional conjugates. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1518		25
158	Impedometric Screening of Gas-Sensitive Inorganic Materials 2009 , 273-293		
157	DNA-Mediated Assembly of Metal Nanoparticles: Fabrication, Structural Features, and Electrical Properties. <i>Nanostructure Science and Technology</i> , 2009 , 11-41	0.9	3
156	Assembly of DNA-functionalized gold nanoparticles studied by UV/Vis-spectroscopy and dynamic light scattering. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1870-5	3.6	30
155	Multidentate thioether ligands coating gold nanoparticles. <i>Chemical Communications</i> , 2008 , 3438-40	5.8	38
154	Chain-like assembly of gold nanoparticles on artificial DNA templates via 'click chemistry'. <i>Chemical Communications</i> , 2008 , 169-71	5.8	110
153	Striped phase of mercaptoalkylferrocenes on Au(111) with a potential for nanoscale surface patterning. <i>Langmuir</i> , 2008 , 24, 4577-80	4	10
152	In-situ electrical addressing of one-dimensional gold nanoparticle assemblies. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 461-5	1.3	11
151	Generation and electrical contacting of gold quantum dots. <i>Colloid and Polymer Science</i> , 2008 , 286, 1029-37	1.037	12

150	Reversible photothermal melting of DNA in DNA-gold-nanoparticle networks. <i>Small</i> , 2008 , 4, 607-10	11	57
149	An easy single-step synthesis of platinum nanoparticles embedded in carbon. <i>Chemistry - A European Journal</i> , 2008 , 14, 8776-9	4.8	4
148	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	2.3	109
147	Electrical and Optical Properties of Cetineite-Type Rb-, Sr-, and Ba-Oxoselenoantimonates(III). <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 369-372	2.3	2
146	Zeolite based trace humidity sensor for high temperature applications in hydrogen atmosphere. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 171-174	8.5	33
145	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	3.3	40
144	Structure and Electrochemical Characterization of 4-Methyl-4E(n-mercaptoalkyl)biphenyls on Au(111)-(1 × 1). <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17409-17419	3.8	28
143	Electrical and Structural Characterization of Biphenylethanethiol SAMs. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6392-6397	3.8	18
142	High-throughput gas sensing screening of surface-doped In(2)O(3). <i>ACS Combinatorial Science</i> , 2007 , 9, 53-61		40
141	Funktionalisierung von Silicium-Nanopartikeln. <i>Chemie-Ingenieur-Technik</i> , 2007 , 79, 1460-1461	0.8	
140	Noble gases influence the conductance of cetineite-type nanoporous semiconductors. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6372-5	16.4	5
139	Edelgase beeinflussen die Leitfähigkeit von nanoporösen Cetineit-Halbleitern. <i>Angewandte Chemie</i> , 2007 , 119, 6491-6494	3.6	1
138	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	15.6	142
137	The Structure of the First Supramolecular βCyclodextrin Complex with an Aliphatic Monofunctional Carboxylic Acid. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 4298-4300	3.2	19
136	Scanning tunneling microscopy and spectroscopy studies of 4-methyl-4'-(n-mercaptoalkyl)biphenyls on Au(111)-(1 × 1). <i>ChemPhysChem</i> , 2007 , 8, 1037-48	3.2	22
135	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	5.1	253
134	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	8.5	54
133	Gas sensing properties of volume-doped CoTiO ₃ synthesized via polyol method. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 595-603	8.5	56

132	Face preferred deposition of gold nanoparticles on alpha-cyclodextrin/octanethiol inclusion compound. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 202-5	9.3	15
131	Formation of bimetallic Ag-Au nanowires by metallization of artificial DNA duplexes. <i>Small</i> , 2007 , 3, 1049-55		103
130	Size-dependent cytotoxicity of gold nanoparticles. <i>Small</i> , 2007 , 3, 1941-9	11	1414
129	cis-Pt Mediated Assembly of Gold Nanoparticles on DNA. <i>Journal of Cluster Science</i> , 2007 , 18, 193-204	3	12
128	Honoring the scientific lifework of Güter Schmid on the occasion of his 70th birthday. <i>Journal of Cluster Science</i> , 2007 , 18, 1-3	3	
127	Functionalization of silicon nanoparticles via hydrosilylation with 1-alkenes. <i>Colloid and Polymer Science</i> , 2007 , 285, 729-736	2.4	48
126	Advances in high throughput screening of gas sensing materials. <i>Applied Surface Science</i> , 2007 , 254, 669-676		26
125	In situnanomanipulation system for electrical measurements in SEM. <i>Measurement Science and Technology</i> , 2007 , 18, N84-N89	2	26
124	Surface chemistry of n-octane modified silicon nanoparticles analyzed by IR, 13C CPMAS NMR, EELS, and TGA. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2818-22	1.3	8
123	Ordered arrays of silicon pillars with controlled height and aspect ratio. <i>Nanotechnology</i> , 2007 , 18, 3053074		30
122	Highly Efficient Silver Nanoparticle Formation on Dialdehyde-Modified DNA. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1061, 1		
121	High Throughput Screening of the Sensing Properties of Doped SmFeO ₃ . <i>Solid State Phenomena</i> , 2007 , 128, 225-236	0.4	9
120	Self Assembly of Mixed Monolayers of Mercaptoundecylferrocene and Undecanethiol studied by STM. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 852-855	0.3	10
119	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	9.6	23
118	DNA-Based Assembly of Metal Nanoparticles: Structure and Functionality. <i>Nanoscience and Technology</i> , 2007 , 263-282	0.6	1
117	Development of Hybrid Polymer Electrolyte Membranes Based on the Semi-Interpenetrating Network Concept. <i>Fuel Cells</i> , 2006 , 6, 225-236	2.9	22
116	Reactivity and properties of [-O-Bi(III...)O=Mo-] _n chains. <i>Inorganic Chemistry</i> , 2006 , 45, 9020-31	5.1	20
115	Formation of electrically conducting DNA-assembled gold nanoparticle monolayers. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1338		33

114	STM study of mixed alkanethiol/biphenylthiol self-assembled monolayers on Au(111). <i>Langmuir</i> , 2006 , 22, 3021-7	4	51
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	23
112	Workflow for High Throughput Screening of Gas Sensing Materials. <i>Sensors</i> , 2006 , 6, 298-307	3.8	26
111	Single-crystal X-ray Analysis of [Au ₉ (PPh ₃) ₈](NO ₃) ₃ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2159-2159	1.3	6
110	Polyol-mediated Synthesis of LnCrO ₃ (Ln = La, Pr, Sm-Lu). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2159-2159	1.3	1
109	Metal and metal oxide nanoparticles in chemiresistors: does the nanoscale matter?. <i>Small</i> , 2006 , 2, 36-50	11	1102
108	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	1.6	18
107	Preparation and gas sensing properties of nanocrystalline La-doped CoTiO ₃ . <i>Sensors and Actuators B: Chemical</i> , 2006 , 120, 110-118	8.5	55
106	Preparation, structural, and optical features of two-dimensional cross-linked DNA/gold-nanoparticle conjugates. <i>Colloid and Polymer Science</i> , 2006 , 284, 1265-1273	2.4	3
105	Transformation of nanoporous oxoselenoantimonates into Sb ₂ O ₃ --nanoribbons and nanorods. <i>Chemical Communications</i> , 2005 , 5790-2	5.8	14
104	Setup for high-throughput impedance screening of gas-sensing materials. <i>ACS Combinatorial Science</i> , 2005 , 7, 682-7		37
103	Gold nanoparticles: assembly and electrical properties in 1-3 dimensions. <i>Chemical Communications</i> , 2005 , 697-710	5.8	261
102	In-situ X-ray detection of Xe adsorption in cetineites. <i>Studies in Surface Science and Catalysis</i> , 2005 , 158, 933-938	1.8	
101	Electrical detection of different amines with proton-conductive H-ZSM-5. <i>Studies in Surface Science and Catalysis</i> , 2005 , 2049-2056	1.8	5
100	Trabecular bone fracture healing simulation with finite element analysis and fuzzy logic. <i>Journal of Biomechanics</i> , 2005 , 38, 2440-50	2.9	110
99	Generation and Characterization of Multilayer Systems Consisting of Au ₅₅ (PPh ₃) ₁₂ Cl ₆ Double Layers and SiO ₂ Barrier Films. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 3670-3678	2.3	3
98	DNA-Based Assembly of Metal Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 3641-3655	3.5	107
97	Self-Assembly of Crosslinked DNA-Gold Nanoparticle Layers Visualized by In-Situ Scanning Force Microscopy. <i>Advanced Materials</i> , 2005 , 17, 1643-1647	24	32

- 96 A Flexible Database for Combinatorial and High-Throughput Materials Science. *QSAR and Combinatorial Science*, **2005**, 24, 22-28 36
- 95 Development of a High-Throughput Impedance Spectroscopy Screening System (HT-IS) for Characterisation of Novel Nanoscaled Gas Sensing Materials. *Materials Research Society Symposia Proceedings*, **2005**, 876, 1 1
- 94 Preparation of Nanosized Perovskite-type Oxides via Polyol Method. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2004**, 630, 2083-2089 1.3 31
- 93 High-throughput method for the impedance spectroscopic characterization of resistive gas sensors. *Angewandte Chemie - International Edition*, **2004**, 43, 752-4 16.4 41
- 92 Hochdurchsatzmethode zur impedanzspektroskopischen Charakterisierung resistiver Gas-Sensoren. *Angewandte Chemie*, **2004**, 116, 770-773 3.6 7
- 91 Solvate-supported proton transport in zeolites. *ChemPhysChem*, **2004**, 5, 465-72 3.2 83
- 90 Computational Methods for Host-Guest Interactions **2003**, 244-254
- 89 Photosensitive Optical Properties of Zeolitic Nanocomposites **2003**, 501-520 2
- 88 Luminescence of Lanthanide Organometallic Complexes **2003**, 558-583 1
- 87 Guest Functionalized Crystalline Organic/Inorganic Nanohybrid Materials **2003**, 7-28 5
- 86 Recent Advances in the Synthesis of Mesostructured Aluminum Phosphates **2003**, 183-196
- 85 Organic/Inorganic Functional Materials for Light-Emitting Devices Based on Conjugated Bisphosphonates **2003**, 197-216
- 84 Conductive Structures in Mesoporous Materials **2003**, 393-409 4
- 83 Electronic Structure of Zeolite-Stabilized Ions and Quantum Dots **2003**, 424-450
- 82 Microwave-Assisted Crystallization Inclusion of Dyes in Microporous AlPO₄₋₅ and Mesoporous Si-MCM-41 Molecular Sieves **2003**, 44-63 1
- 81 Microscopic Lasers Based on the Molecular Sieve AlPO₄₋₅ **2003**, 584-617
- 80 Large and Perfect, Optically Transparent Crystals of an Unusual Habitus **2003**, 64-83 1
- 79 Nanoporous Crystals as Host Matrices for Mesomorphous Phases **2003**, 84-102

78	Cationic Host-Guest Polymerization of Vinyl Monomers in MCM-41 2003 , 103-120	1
77	Direct Synthesis of Functional Organic/Inorganic Hybrid Mesostructures 2003 , 121-144	1
76	Metal-Oxide Species in Molecular Sieves: Materials for Optical Sensing of Reductive Gas Atmospheres 2003 , 145-164	1
75	From Stoichiometric Carbonyl Complexes to Stable Zeolite-Supported Subnanometer Platinum Clusters of Defined Size 2003 , 165-182	0
74	Ionic Conductivity of Zeolites: From Fundamentals to Applications 2003 , 364-378	4
73	Density Functional Studies of Host-Guest Interactions in Sodalites 2003 , 410-423	
72	Probing Host Structures by Monitoring Guest Distributions 2003 , 255-279	3
71	Organic Guest Molecules in Zeolites 2003 , 306-323	
70	Structure and Dynamics of Guest-Host Composites Based on Nanoporous Crystals 2003 , 239-243	
69	New Microlasers Based on Molecular Sieve/Laser Dye Composite Materials 2003 , 544-557	2
68	Confocal Microscopy and Spectroscopy for the Characterization of Host-Guest Materials 2003 , 521-543	
67	Prussian Blue Derived, Organometallic Coordination Polymers with Nanometer-Sized Cavities 2003 , 217-237	2
66	Thionine in Zeolite NaY: Potential Energy Surface Analysis and the Identification of Adsorption Sites 2003 , 324-338	
65	Density Functional Model Cluster Studies of Metal Cations, Atoms, Complexes, and Clusters in Zeolites 2003 , 339-357	1
64	Molecular Dynamics in Confined Space 2003 , 379-392	
63	Cetineites: Nanoporous Semiconductors with Zeolite-Like Channel Structure 2003 , 451-477	2
62	Modification of Gas Permeation by Optical Switching of Molecular Sieve/Azobenzene Membranes 2003 , 484-500	2
61	Laser Materials based on Mesostructured Systems 2003 , 618-632	

60	Introduction to Part 4 2003 , 479-483		
59	Synthesis Routes for Functional Composites Based on Nanoporous Materials 2003 , 1-6		
58	Charge-Transfer Mechanisms between Gold Clusters. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 1121-1127	2.3	57
57	In Situ Synthesis of Azo Dyes and Spiropyran Dyes in Faujasites and their Photochromic Properties 2003 , 29-43		1
56	Polymer-Embedded Host-Guest Systems 2003 , 633-647		2
55	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, 995-9	3.4	55
54	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	3.6	77
53	Amperometric measurements with a nitrosyl cation conducting ceramic membrane. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 5199-5202	3.6	1
52	Host-Guest Interactions in Bassanite, CaSO ₄ ·0.5 H ₂ O 2003 , 280-305		1
51	Immobilization of gold nanoparticles on solid supports utilizing DNA hybridization. <i>Materials Science and Engineering C</i> , 2002 , 19, 47-50	8.3	14
50	Assembly of Gold Nanoparticles on DNA Strands. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 735, 941		
49	Assembly of Gold Nanoparticles on DNA Strands. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 761, 1		1
48	Design strategies for multielectrode arrays applicable for high-throughput impedance spectroscopy on novel gas sensor materials. <i>ACS Combinatorial Science</i> , 2002 , 4, 511-5		61
47	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	3.6	64
46	Metal clusters in plasma polymer matrices. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2438-2442	3.6	12
45	Site-selective immobilization of gold nanoparticles functionalized with DNA oligomers. <i>Colloid and Polymer Science</i> , 2001 , 279, 68-72	2.4	80
44	A new potentiometric NO sensor based on a NO ⁺ cation conducting ceramic membrane. <i>Sensors and Actuators B: Chemical</i> , 2001 , 77, 287-292	8.5	9
43	Structure-property relations in Au ₅₅ cluster layers studied by temperature-dependent impedance measurements. <i>ChemPhysChem</i> , 2001 , 2, 321-5	3.2	21

42	Bonding of Guest Molecules in the Tubes of Nanoporous Cetineite Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 658, 491		
41	1D Conductance in Cetineites: A New Class of Chemically Synthesized Nanoporous Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 218, 151-154	1.3	7
40	Characteristics of Proton Hopping in Zeolite H-ZSM5. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 218, 287-290	1.3	18
39	Electrical properties of nanoscaled host/guest compounds. <i>Microporous and Mesoporous Materials</i> , 2000 , 41, 1-36	5.3	113
38	Influence of spilt-over hydrogen on the electrical properties of H-ZSM-5. <i>Applied Catalysis A: General</i> , 2000 , 202, 179-182	5.1	11
37	Characterization of doped tin dioxide anodes prepared by a sol-gel technique and their application in an SPE-reactor. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 293-302	2.6	33
36	On structure/property-relations in nanoporous semiconductors of the cetineite-type. <i>Studies in Surface Science and Catalysis</i> , 2000 , 129, 683-690	1.8	1
35	Cetineites: Electronic, optical, and conduction properties of nanoporous chalcogenoantimonates. <i>Physical Review B</i> , 2000 , 61, 15697-15706	3.3	8
34	A Computational Study of the Translational Motion of Protons in Zeolite H-ZSM-5. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 658, 741		
33	Electrical properties of chemically tailored nanoparticles and their application in microelectronics 2000 , 131-178		9
32	Proton mobility in H-ZSM5 studied by impedance spectroscopy. <i>Solid State Ionics</i> , 1999 , 118, 311-316	3.3	63
31	Cation-Cation Interaction in Dehydrated Zeolites X and Y Monitored by Modulus Spectroscopy. <i>Journal of Porous Materials</i> , 1999 , 6, 33-40	2.4	48
30	Nanodispersions of conducting particles: preparation, microstructure and dielectric properties. <i>Colloid and Polymer Science</i> , 1999 , 277, 2-14	2.4	83
29	Clusters on Clusters: closo-Dodecaborate as a Ligand for Au ₅₅ Clusters. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 2051-2055	2.3	27
28	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	5.8	35
27	Electronic and optical properties of cetineites nanoporous semiconductors with zeolite-like channel structure. <i>Scripta Materialia</i> , 1999 , 12, 447-450		11
26	Can We Determine the Barrier Resistance for Electron Transport in Ligand Stabilized Nanoparticles from Integral Conductance Measurements?. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 581, 77		3
25	Ladungstransfer [themisch, physikalisch und biologisch betrachtet. <i>Nachrichten Aus Der Chemie</i> , 1999 , 47, 641-647		

24	A Theoretical Consideration of Disorder in a Finite 1D Metal Cluster Chain in a Nanoporous Solid. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 205, 223-227	1.3	4
23	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	5.3	63
22	Conductivity studies on AgSbO ₃ channel structure by impedance spectroscopy. <i>Solid State Ionics</i> , 1998 , 107, 111-116	3.3	9
21	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		41
20	Electronic Structure of a Novel Class of Nanoporous Materials. <i>Physical Review Letters</i> , 1998 , 80, 3316-3319		23
19	Electrical and optical properties of zeolite γ supported SnO ₂ nanoparticles. <i>Colloid and Polymer Science</i> , 1997 , 275, 91-95	2.4	13
18	Potential distribution in a finite 1-D array of arbitrary mesoscopic tunnel junctions. <i>Physica B: Condensed Matter</i> , 1997 , 240, 289-297	2.8	6
17	K ₃ SbO 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		40
16	K ₃ Sb ₇ O ₉ Se ₃ · 3H ₂ O: das erste kristalline, nanoporöse Material mit photohalbleitender Wirtstruktur. <i>Angewandte Chemie</i> , 1997 , 109, 1138-1140	3.6	17
15	Oxygen ion conductivity of platinum-impregnated stabilized zirconia in bulk and microporous materials. <i>Advanced Materials</i> , 1996 , 8, 424-427	2.4	19
14	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	2.4	179
13	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	2.4	164
12	Impedanzspektroskopische Untersuchungen an Zeolithen mit eingelagerten Metallclustern. <i>Chemie-Ingenieur-Technik</i> , 1995 , 67, 583-586	0.8	5
11	STM Investigations on Compact Au ₅₅ Cluster Pellets. <i>Europhysics Letters</i> , 1994 , 28, 641-646	1.6	39
10	The Application of Au ₅₅ Clusters as Quantum Dots. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 250-254		109
9	Die Verwendung von Au ₅₅ -Clustern als Quantenpunkte. <i>Angewandte Chemie</i> , 1993 , 105, 264-267	3.6	25
8	Electronic Properties of Compact and Diluted Metal-Clusters by Impedance Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 272, 167		3
7	On the Possibility of Single Electronics Based on Ligand-Stabilized Metal Clusters		9

6	In-situ Electrical Measurements on Nanostructures in a Scanning Electron Microscope	595-596	
5	Formation of Nanostructures by Self-Assembly	305	
4	Nanosession: Molecular and Polymer Electronics	453-460	
3	Poster: Electronic Structure, Lattice Dynamics, and Transport	471-522	
2	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> , 1		2.8
1	Properties	371-454	1