# Ulrich Simon

## List of Publications by Citations



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|---|---|---|---|
| 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 | Size-dependent cytotoxicity of gold nanoparticles. *Small*, **2007**, 3, 1941-9 | 11 | 1414 |
| 310 | Metal and metal oxide nanoparticles in chemiresistors: does the nanoscale matter?. *Small*, **2006**, 2, 36-50 | 11 | 1102 |
| 309 | Gold nanoparticles of diameter 1.4 nm trigger necrosis by oxidative stress and mitochondrial damage. *Small*, **2009**, 5, 2067-76 | 11 | 595 |
| 308 | Particle size-dependent and surface charge-dependent biodistribution of gold nanoparticles after intravenous administration. *European Journal of Pharmaceutics and Biopharmaceutics*, **2011**, 77, 407-16 | 5.7 | 424 |
| 307 | Size and surface charge of gold nanoparticles determine absorption across intestinal barriers and accumulation in secondary target organs after oral administration. *Nanotoxicology*, **2012**, 6, 36-46 | 5.3 | 270 |
| 306 | Gold nanoparticles: assembly and electrical properties in 1-3 dimensions. *Chemical Communications*, **2005**, 697-710 | 5.8 | 261 |
| 305 | The acid properties of H-ZSM-5 as studied by NH3-TPD and 27Al-MAS-NMR spectroscopy. *Applied Catalysis A: General*, **2007**, 328, 174-182 | 5.1 | 253 |
| 304 | On the application potential of gold nanoparticles in nanoelectronics and biomedicine. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 1405-53 | 3 | 208 |
| 303 | A fascinating new field in colloid science: small ligand-stabilized metal clusters and possible application in microelectronics. *Colloid and Polymer Science*, **1995**, 273, 101-117 | 2.4 | 179 |
| 302 | Air-blood barrier translocation of tracheally instilled gold nanoparticles inversely depends on particle size. *ACS Nano*, **2014**, 8, 222-33 | 16.7 | 167 |
| 301 | A fascinating new field in colloid science: small ligand-stabilized metal clusters and their possible application in microelectronics. *Colloid and Polymer Science*, **1995**, 273, 202-218 | 2.4 | 164 |
| 300 | Preparation and Gas Sensing Characteristics of Nanoparticulate p-Type Semiconducting LnFeO3 and LnCrO3 Materials. *Advanced Functional Materials*, **2007**, 17, 2189-2197 | 15.6 | 142 |
| 299 | Electrical properties of nanoscaled host/guest compounds. *Microporous and Mesoporous Materials*, **2000**, 41, 1-36 | 5.3 | 113 |
| 298 | Chain-like assembly of gold nanoparticles on artificial DNA templates via 'click chemistry'. *Chemical Communications*, **2008**, 169-71 | 5.8 | 110 |
| 297 | Trabecular bone fracture healing simulation with finite element analysis and fuzzy logic. *Journal of Biomechanics*, **2005**, 38, 2440-50 | 2.9 | 110 |
| 296 | Crystal Structure, Electrochemical and Optical Properties of [Au9(PPh3)8](NO3)3. *European Journal of Inorganic Chemistry*, **2008**, 2008, 106-111 | 2.3 | 109 |
| 295 | The Application of Au55 Clusters as Quantum Dots. *Angewandte Chemie International Edition in English*, **1993**, 32, 250-254 | | 109 |

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| 294 | Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metal-Support Interactions in Pd/TiO2 Catalysts for Nitrobenzene Hydrogenation. *ACS Catalysis*, **2017**, 7, 1197-1206 | 13.1 | 107 |
| 293 | DNA-Based Assembly of Metal Nanoparticles. *European Journal of Inorganic Chemistry*, **2005**, 2005, 3641-3655 | 2.6 | 107 |
| 292 | Controlled nucleation of DNA metallization. *Angewandte Chemie - International Edition*, **2009**, 48, 219-23 | 16.4 | 106 |
| 291 | Formation of bimetallic Ag-Au nanowires by metallization of artificial DNA duplexes. *Small*, **2007**, 3, 1049-55 | 11 | 103 |
| 290 | In Vivo Nanotoxicity Testing using the Zebrafish Embryo Assay. *Journal of Materials Chemistry B*, **2013**, 1, | 7.3 | 89 |
| 289 | Solvate-supported proton transport in zeolites. *ChemPhysChem*, **2004**, 5, 465-72 | 3.2 | 83 |
| 288 | Nanodispersions of conducting particles: preparation, microstructure and dielectric properties. *Colloid and Polymer Science*, **1999**, 277, 2-14 | 2.4 | 83 |
| 287 | Site-selective immobilization of gold nanoparticles functionalized with DNA oligomers. *Colloid and Polymer Science*, **2001**, 279, 68-72 | 2.4 | 80 |
| 286 | [Au14(PPh3)8(NO3)4]: an example of a new class of Au(NO3)-ligated superatom complexes. *Angewandte Chemie - International Edition*, **2013**, 52, 3529-32 | 16.4 | 78 |
| 285 | Development and working principle of an ammonia gas sensor based on a refined model for solvate supported proton transport in zeolites. *Physical Chemistry Chemical Physics*, **2003**, 5, 5195-5198 | 3.6 | 77 |
| 284 | 3D Structures of Responsive Nanocompartmentalized Microgels. *Nano Letters*, **2016**, 16, 7295-7301 | 11.5 | 75 |
| 283 | Molecularly stabilised ultrasmall gold nanoparticles: synthesis, characterization and bioactivity. *Nanoscale*, **2013**, 5, 6224-42 | 7.7 | 72 |
| 282 | Translational proton motion in zeolite H-ZSM-5. Energy barriers and jump rates from DFT calculations. *Physical Chemistry Chemical Physics*, **2002**, 4, 5207-5216 | 3.6 | 64 |
| 281 | The effect of NH3 on the ionic conductivity of dehydrated zeolites Na beta and H beta. *Microporous and Mesoporous Materials*, **1998**, 21, 111-116 | 5.3 | 63 |
| 280 | Proton mobility in H-ZSM5 studied by impedance spectroscopy. *Solid State Ionics*, **1999**, 118, 311-316 | 3.3 | 63 |
| 279 | Enhancement of capacitive deionization capacity of hierarchical porous carbon. *Journal of Materials Chemistry A*, **2015**, 3, 12730-12737 | 13 | 62 |
| 278 | Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gram-Positive Staphylococci. *Small*, **2015**, 11, 3183-93 | 11 | 61 |
| 277 | Design strategies for multielectrode arrays applicable for high-throughput impedance spectroscopy on novel gas sensor materials. *ACS Combinatorial Science*, **2002**, 4, 511-5 | | 61 |

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| 276 | Toxic effects and biodistribution of ultrasmall gold nanoparticles. *Archives of Toxicology*, **2017**, 91, 3011-3037 | 5.8 | 58 |
| 275 | Sulfonated poly(ether ether ketone)–silica membranes doped with phosphotungstic acid. Morphology and proton conductivity. *Journal of Membrane Science*, **2009**, 326, 45-57 | 9.6 | 58 |
| 274 | A numerical model of the fracture healing process that describes tissue development and revascularisation. *Computer Methods in Biomechanics and Biomedical Engineering*, **2011**, 14, 79-93 | 2.1 | 57 |
| 273 | Reversible photothermal melting of DNA in DNA-gold-nanoparticle networks. *Small*, **2008**, 4, 607-10 | 11 | 57 |
| 272 | Charge-Transfer Mechanisms between Gold Clusters. *European Journal of Inorganic Chemistry*, **2003**, 2003, 1121-1127 | 2.3 | 57 |
| 271 | Gas sensing properties of volume-doped CoTiO3 synthesized via polyol method. *Sensors and Actuators B: Chemical*, **2007**, 126, 595-603 | 8.5 | 56 |
| 270 | Preparation and gas sensing properties of nanocrystalline La-doped CoTiO3. *Sensors and Actuators B: Chemical*, **2006**, 120, 110-118 | 8.5 | 55 |
| 269 | Bifunctional DNA-gold nanoparticle conjugates as building blocks for the self-assembly of cross-linked particle layers. *Biochemical and Biophysical Research Communications*, **2003**, 311, 995-9 | 3.4 | 55 |
| 268 | Microgel Size Modulation by Electrochemical Switching. *Chemistry of Materials*, **2015**, 27, 7306-7312 | 9.6 | 54 |
| 267 | Influence of the fixation stability on the healing time--a numerical study of a patient-specific fracture healing process. *Clinical Biomechanics*, **2010**, 25, 606-12 | 2.2 | 54 |
| 266 | High throughput screening of the propylene and ethanol sensing properties of rare-earth orthoferrites and orthochromites. *Sensors and Actuators B: Chemical*, **2007**, 126, 181-186 | 8.5 | 54 |
| 265 | Differential hERG ion channel activity of ultrasmall gold nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8004-9 | 11.5 | 53 |
| 264 | STM study of mixed alkanethiol/biphenylthiol self-assembled monolayers on Au(111). *Langmuir*, **2006**, 22, 3021-7 | 4 | 51 |
| 263 | The effects of gold nanoparticles functionalized with β-amyloid specific peptides on an in vitro model of blood-brain barrier. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 1645-1652 | 6 | 49 |
| 262 | Functionalization of silicon nanoparticles via hydrosilylation with 1-alkenes. *Colloid and Polymer Science*, **2007**, 285, 729-736 | 2.4 | 48 |
| 261 | Cation-Cation Interaction in Dehydrated Zeolites X and Y Monitored by Modulus Spectroscopy. *Journal of Porous Materials*, **1999**, 6, 33-40 | 2.4 | 48 |
| 260 | Formation and Effect of NH4+ Intermediates in NH3–SCR over Fe-ZSM-5 Zeolite Catalysts. *ACS Catalysis*, **2016**, 6, 7696-7700 | 13.1 | 46 |
| 259 | A Missing Link in Undecagold Cluster Chemistry: Single-Crystal X-ray Analysis of [Au11(PPh3)7Cl3]. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2002-2006 | 2.3 | 44 |

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| 258 | Spontaneous assembly of miktoarm stars into vesicular interpolyelectrolyte complexes. *Macromolecular Rapid Communications*, **2013**, 34, 855-60 | 4.8 | 44 |
| 257 | High-sensitivity real-time analysis of nanoparticle toxicity in green fluorescent protein-expressing zebrafish. *Small*, **2013**, 9, 863-9 | 11 | 41 |
| 256 | Chemical tailoring of the charging energy in metal cluster arrangements by use of bifunctional spacer molecules. *Journal of Materials Chemistry*, **1998**, 8, 517-518 | | 41 |
| 255 | High-throughput method for the impedance spectroscopic characterization of resistive gas sensors. *Angewandte Chemie - International Edition*, **2004**, 43, 752-4 | 16.4 | 41 |
| 254 | Features of transport in ultrathin gold nanowire structures. *Small*, **2013**, 9, 846-52 | 11 | 40 |
| 253 | K3SbO9Se3 □3 H2O: The First Crystalline Nanoporous Material with a Photo-Semiconducting Host Structure. *Angewandte Chemie International Edition in English*, **1997**, 36, 1121-1124 | | 40 |
| 252 | High-throughput gas sensing screening of surface-doped In(2)O(3). *ACS Combinatorial Science*, **2007**, 9, 53-61 | | 40 |
| 251 | Correlation of TPD and impedance measurements on the desorption of NH3 from zeolite H-ZSM-5. *Solid State Ionics*, **2008**, 179, 1968-1973 | 3.3 | 40 |
| 250 | Modern chemical synthesis methods towards low-dimensional phase change structures in the Ge□Sb□Te material system. *Progress in Crystal Growth and Characterization of Materials*, **2015**, 61, 27-45 | 3.5 | 39 |
| 249 | STM Investigations on Compact Au 55 Cluster Pellets. *Europhysics Letters*, **1994**, 28, 641-646 | 1.6 | 39 |
| 248 | Multidentate thioether ligands coating gold nanoparticles. *Chemical Communications*, **2008**, 3438-40 | 5.8 | 38 |
| 247 | Setup for high-throughput impedance screening of gas-sensing materials. *ACS Combinatorial Science*, **2005**, 7, 682-7 | | 37 |
| 246 | Easy-Preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing. *Analytical Chemistry*, **2017**, 89, 6091-6098 | 7.8 | 36 |
| 245 | 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 | 8.5 | 36 |
| 244 | A Flexible Database for Combinatorial and High-Throughput Materials Science. *QSAR and Combinatorial Science*, **2005**, 24, 22-28 | | 36 |
| 243 | Transmission electron microscopic and small angle X-ray diffraction investigations of Au55(PPh3)12Cl6 microcrystals□*Chemical Communications*, **1999**, 1303-1304 | 5.8 | 35 |
| 242 | 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 | 4.1 | 34 |
| 241 | Size dependent gas sensing properties of spinel iron oxide nanoparticles. *Sensors and Actuators B: Chemical*, **2011**, 160, 942-950 | 8.5 | 34 |

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| 240 | Gesteuerte Keimbildung bei der DNA-Metallisierung. *Angewandte Chemie*, **2009**, 121, 225-229 | 3.6 | 34 |
| 239 | Zeolite based trace humidity sensor for high temperature applications in hydrogen atmosphere. *Sensors and Actuators B: Chemical*, **2008**, 134, 171-174 | 8.5 | 33 |
| 238 | Formation of electrically conducting DNA-assembled gold nanoparticle monolayers. *Journal of Materials Chemistry*, **2006**, 16, 1338 | | 33 |
| 237 | Characterization of doped tin dioxide anodes prepared by a sol□gel technique and their application in an SPE-reactor. *Journal of Applied Electrochemistry*, **2000**, 30, 293-302 | 2.6 | 33 |
| 236 | Self-Assembly of Crosslinked DNA□Gold Nanoparticle Layers Visualized by In-Situ Scanning Force Microscopy. *Advanced Materials*, **2005**, 17, 1643-1647 | 24 | 32 |
| 235 | Selective Packaging of Ferricyanide within Thermoresponsive Microgels. *Journal of Physical Chemistry C*, **2014**, 118, 26199-26211 | 3.8 | 31 |
| 234 | [Au14(PPh3)8(NO3)4]: Vertreter einer neuen Klasse Au(NO3)- stabilisierter Superatomkomplexe. *Angewandte Chemie*, **2013**, 125, 3614-3617 | 3.6 | 31 |
| 233 | Preparation of Nanosized Perovskite-type Oxides via Polyol Method. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2004**, 630, 2083-2089 | 1.3 | 31 |
| 232 | Field-emission resonances at tip/alpha,omega-mercaptoalkyl ferrocene/Au interfaces studied by STM. *Small*, **2009**, 5, 496-502 | 11 | 30 |
| 231 | Photothermal control of the activity of HRP-functionalized gold nanoparticles. *Small*, **2009**, 5, 2549-53 | 11 | 30 |
| 230 | Patterned self-assembly of gold nanoparticles on chemical templates fabricated by soft UV nanoimprint lithography. *Nanotechnology*, **2011**, 22, 295301 | 3.4 | 30 |
| 229 | Assembly of DNA-functionalized gold nanoparticles studied by UV/Vis-spectroscopy and dynamic light scattering. *Physical Chemistry Chemical Physics*, **2008**, 10, 1870-5 | 3.6 | 30 |
| 228 | Ordered arrays of silicon pillars with controlled height and aspect ratio. *Nanotechnology*, **2007**, 18, 305307 | 3.4 | 30 |
| 227 | Ammonia storage studies on H-ZSM-5 zeolites by microwave cavity perturbation: correlation of dielectric properties with ammonia storage. *Journal of Sensors and Sensor Systems*, **2015**, 4, 263-269 | 1.6 | 30 |
| 226 | Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. *Nature Communications*, **2020**, 11, 652 | 17.4 | 28 |
| 225 | Structure and Electrochemical Characterization of 4-Methyl-4□(n-mercaptoalkyl)biphenyls on Au(111)-(1 □1). *Journal of Physical Chemistry C*, **2007**, 111, 17409-17419 | 3.8 | 28 |
| 224 | Control of cell adhesion and neurite outgrowth by patterned gold nanoparticles with tunable attractive or repulsive surface properties. *Small*, **2012**, 8, 3357-67 | 11 | 27 |
| 223 | Clusters on Clusters: closo-Dodecaborate as a Ligand for Au55 Clusters. *European Journal of Inorganic Chemistry*, **1999**, 1999, 2051-2055 | 2.3 | 27 |

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| 222 | Surface "click" reaction of DNA followed by directed metalization for the construction of contactable conducting nanostructures. *Angewandte Chemie - International Edition*, **2012**, 51, 7586-8 | 16.4 | 26 |
| 221 | Advances in high throughput screening of gas sensing materials. *Applied Surface Science*, **2007**, 254, 669-676 | 6.7 | 26 |
| 220 | In situnanomanipulation system for electrical measurements in SEM. *Measurement Science and Technology*, **2007**, 18, N84-N89 | 2 | 26 |
| 219 | Workflow for High Throughput Screening of Gas Sensing Materials. *Sensors*, **2006**, 6, 298-307 | 3.8 | 26 |
| 218 | Probing the effect of surface chemistry on the electrical properties of ultrathin gold nanowire sensors. *Nanoscale*, **2014**, 6, 5146-55 | 7.7 | 25 |
| 217 | Correlating the Integral Sensing Properties of Zeolites with Molecular Processes by Combining Broadband Impedance and DRIFT Spectroscopy--A New Approach for Bridging the Scales. *Sensors*, **2015**, 15, 28915-41 | 3.8 | 25 |
| 216 | Metal nanoparticle□DNA hybrids □from assembly towards functional conjugates. *Journal of Materials Chemistry*, **2009**, 19, 1518 | | 25 |
| 215 | Die Verwendung von Au55-Clustern als Quantenpunkte. *Angewandte Chemie*, **1993**, 105, 264-267 | 3.6 | 25 |
| 214 | Hydrophobic superparamagnetic FePt nanoparticles in hydrophilic poly(N-vinylcaprolactam) microgels: a new multifunctional hybrid system. *Journal of Materials Chemistry B*, **2017**, 5, 1284-1292 | 7.3 | 24 |
| 213 | Cargo shuttling by electrochemical switching of core-shell microgels obtained by a facile one-shot polymerization. *Chemical Science*, **2019**, 10, 1844-1856 | 9.4 | 24 |
| 212 | Probing structural dynamics of an artificial protein cage using high-speed atomic force microscopy. *Nano Letters*, **2015**, 15, 1331-5 | 11.5 | 24 |
| 211 | Electrical Transport through Single Nanoparticles and Nanoparticle Arrays. *Journal of Physical Chemistry C*, **2012**, 116, 20657-20665 | 3.8 | 24 |
| 210 | Size-dependent multispectral photoacoustic response of solid and hollow gold nanoparticles. *Nanotechnology*, **2012**, 23, 225707 | 3.4 | 24 |
| 209 | Deformation of Microgels at Solid-Liquid Interfaces Visualized in Three-Dimension. *Nano Letters*, **2019**, 19, 8862-8867 | 11.5 | 23 |
| 208 | Zeolites as nanoporous, gas-sensitive materials for in situ monitoring of DeNO(x)-SCR. *Beilstein Journal of Nanotechnology*, **2012**, 3, 667-73 | 3 | 23 |
| 207 | NH3-TPD measurements using a zeolite-based sensor. *Measurement Science and Technology*, **2010**, 21, 027003 | 2 | 23 |
| 206 | Low Loading Pt Cathode Catalysts for Direct Methanol Fuel Cell Derived from the Particle Size Effect. *Chemistry of Materials*, **2007**, 19, 3370-3372 | 9.6 | 23 |
| 205 | Wet Chemical Synthesis and Screening of Thick Porous Oxide Films for Resistive Gas Sensing Applications. *Sensors*, **2006**, 6, 1568-1586 | 3.8 | 23 |

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| 204 | Electronic Structure of a Novel Class of Nanoporous Materials. *Physical Review Letters*, **1998**, 80, 3316-3319 | 7.4 | 23 |
| 203 | Metal Loading Affects the Proton Transport Properties and the Reaction Monitoring Performance of Fe-ZSM-5 and Cu-ZSM-5 in NH3-SCR. *Journal of Physical Chemistry C*, **2016**, 120, 25361-25370 | 3.8 | 22 |
| 202 | Multivalency of PEG-thiol ligands affects the stability of NIR-absorbing hollow gold nanospheres and gold nanorods. *Journal of Materials Chemistry B*, **2016**, 4, 2828-2841 | 7.3 | 22 |
| 201 | Resistive Switching of Individual, Chemically Synthesized TiO2 Nanoparticles. *Small*, **2015**, 11, 6444-56 | 11 | 22 |
| 200 | Scanning tunneling microscopy and spectroscopy studies of 4-methyl-4'-(n-mercaptoalkyl)biphenyls on Au(111)-(1x1). *ChemPhysChem*, **2007**, 8, 1037-48 | 3.2 | 22 |
| 199 | Development of Hybrid Polymer Electrolyte Membranes Based on the Semi-Interpenetrating Network Concept. *Fuel Cells*, **2006**, 6, 225-236 | 2.9 | 22 |
| 198 | The effect of Cu and Fe cations on NH3-supported proton transport in DeNOx-SCR zeolite catalysts. *Catalysis Science and Technology*, **2016**, 6, 3362-3366 | 5.5 | 22 |
| 197 | Elucidation and Comparison of the Effect of LiTFSI and LiNO Salts on Discharge Chemistry in Nonaqueous Li-O Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 19319-19325 | 9.5 | 21 |
| 196 | Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes. *Electrochimica Acta*, **2017**, 232, 98-105 | 6.7 | 21 |
| 195 | Structure-property relations in Au55 cluster layers studied by temperature-dependent impedance measurements. *ChemPhysChem*, **2001**, 2, 321-5 | 3.2 | 21 |
| 194 | Local dynamics of copper active sites in zeolite catalysts for selective catalytic reduction of NOx with NH3. *Applied Catalysis B: Environmental*, **2018**, 237, 263-272 | 21.8 | 21 |
| 193 | Construction of 6-thioguanine and 6-mercaptopurine carriers based on β-cyclodextrins and gold nanoparticles. *Carbohydrate Polymers*, **2017**, 177, 22-31 | 10.3 | 20 |
| 192 | Reactivity and properties of [-O-Bi(III...)O=Mo-]n chains. *Inorganic Chemistry*, **2006**, 45, 9020-31 | 5.1 | 20 |
| 191 | The role of oxidative etching in the synthesis of ultrathin single-crystalline Au nanowires. *Chemistry - A European Journal*, **2011**, 17, 9503-7 | 4.8 | 19 |
| 190 | Quantised double layer charging of monolayer-protected clusters in a room temperature ionic liquid. *Electrochimica Acta*, **2009**, 54, 5006-5010 | 6.7 | 19 |
| 189 | The Structure of the First Supramolecular β-Cyclodextrin Complex with an Aliphatic Monofunctional Carboxylic Acid. *European Journal of Organic Chemistry*, **2007**, 2007, 4298-4300 | 3.2 | 19 |
| 188 | Oxygen ion conductivity of platinum-impregnated stabilized zirconia in bulk and microporous materials. *Advanced Materials*, **1996**, 8, 424-427 | 24 | 19 |
| 187 | Solvothermally Synthesized Sb2Te3 Platelets Show Unexpected Optical Contrasts in Mid-Infrared Near-Field Scanning Microscopy. *Nano Letters*, **2015**, 15, 2787-93 | 11.5 | 18 |

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| 186 | Sensing catalytic conversion: Simultaneous DRIFT and impedance spectroscopy for in situ monitoring of NH3‐SCR on zeolites. *Sensors and Actuators B: Chemical*, **2016**, 224, 492-499 | 8.5 | 18 |
| 185 | Electrical and Structural Characterization of Biphenylethanethiol SAMs. *Journal of Physical Chemistry C*, **2007**, 111, 6392-6397 | 3.8 | 18 |
| 184 | Molecular structure of ferrocenethiol islands embedded into alkanethiol self-assembled monolayers by UHV-STM. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 1448-1452 | 1.6 | 18 |
| 183 | Characteristics of Proton Hopping in Zeolite H-ZSM5. *Physica Status Solidi (B): Basic Research*, **2000**, 218, 287-290 | 1.3 | 18 |
| 182 | Monitoring NH3 storage and conversion in Cu-ZSM-5 and Cu-SAPO-34 catalysts for NH3-SCR by simultaneous impedance and DRIFT spectroscopy. *Sensors and Actuators B: Chemical*, **2016**, 236, 1075-1082 | 8.5 | 17 |
| 181 | Nanoparticle self-assembly: Bonding them all. *Nature Materials*, **2013**, 12, 694-6 | 27 | 17 |
| 180 | Shape without Structure: An Intriguing Formation Mechanism in the Solvothermal Synthesis of the Phase-Change Material Sb2 Te3. *Angewandte Chemie - International Edition*, **2015**, 54, 6632-6 | 16.4 | 17 |
| 179 | Covalent cargo loading to molecular shuttles via copper-free "click chemistry". *Biomacromolecules*, **2012**, 13, 3908-11 | 6.9 | 17 |
| 178 | Electrically conducting nanopatterns formed by chemical e-beam lithography via gold nanoparticle seeds. *Langmuir*, **2012**, 28, 2448-54 | 4 | 17 |
| 177 | K3Sb7IIIO9Se3 □3H2O: das erste kristalline, nanoporöse Material mit photohalbleitender Wirtstruktur. *Angewandte Chemie*, **1997**, 109, 1138-1140 | 3.6 | 17 |
| 176 | CLPFFD-PEG functionalized NIR-absorbing hollow gold nanospheres and gold nanorods inhibit β-amyloid aggregation. *Journal of Materials Chemistry B*, **2018**, 6, 2432-2443 | 7.3 | 16 |
| 175 | Microwave Cavity Perturbation Studies on H-form and Cu Ion-Exchanged SCR Catalyst Materials: Correlation of Ammonia Storage and Dielectric Properties. *Topics in Catalysis*, **2017**, 60, 243-249 | 2.3 | 15 |
| 174 | Mechanistic Understanding of Cu-CHA Catalyst as Sensor for Direct NH-SCR Monitoring: The Role of Cu Mobility. *ACS Applied Materials & Interfaces*, **2019**, 11, 8097-8105 | 9.5 | 15 |
| 173 | Ligand-lipid and ligand-core affinity control the interaction of gold nanoparticles with artificial lipid bilayers and cell membranes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1409-19 | 6 | 15 |
| 172 | Tuning neuron adhesion and neurite guiding using functionalized AuNPs and backfill chemistry. *RSC Advances*, **2015**, 5, 39252-39262 | 3.7 | 15 |
| 171 | Directed Immobilization of Janus-AuNP in Heterometallic Nanogaps: a Key Step Toward Integration of Functional Molecular Units in Nanoelectronics. *Journal of Physical Chemistry C*, **2014**, 118, 27142-27149 | 3.8 | 15 |
| 170 | Stepwise thermal and photothermal dissociation of a hierarchical superaggregate of DNA-functionalized gold nanoparticles. *Small*, **2011**, 7, 1397-402 | 11 | 15 |
| 169 | Structural ordering of ω-ferrocenylalkanethiol monolayers on Au(111) studied by scanning tunneling microscopy. *Surface Science*, **2009**, 603, 716-722 | 1.8 | 15 |

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| 168 | Face preferred deposition of gold nanoparticles on alpha-cyclodextrin/octanethiol inclusion compound. *Journal of Colloid and Interface Science*, **2007**, 316, 202-5 | 9.3 | 15 |
| 167 | Mobility of NH3-Solvated CuII Ions in Cu-SSZ-13 and Cu-ZSM-5 NH3-SCR Catalysts: A Comparative Impedance Spectroscopy Study. *Catalysts*, **2018**, 8, 162 | 4 | 15 |
| 166 | Influence of Synthesis, Dopants and Cycling Conditions on the Cycling Stability of Doped LiNi0.5Mn1.5O4Spinels. *Journal of the Electrochemical Society*, **2017**, 164, A6349-A6358 | 3.9 | 14 |
| 165 | Spectroscopic identification and catalytic relevance of NH intermediates in selective NO reduction over Cu-SSZ-13 zeolites. *Chemosphere*, **2020**, 250, 126272 | 8.4 | 14 |
| 164 | Synthesis and Internal Structure of Finite-Size DNA□Gold Nanoparticle Assemblies. *Journal of Physical Chemistry C*, **2014**, 118, 7174-7184 | 3.8 | 14 |
| 163 | Transformation of nanoporous oxoselenoantimonates into Sb2O3--nanoribbons and nanorods. *Chemical Communications*, **2005**, 5790-2 | 5.8 | 14 |
| 162 | Immobilization of gold nanoparticles on solid supports utilizing DNA hybridization. *Materials Science and Engineering C*, **2002**, 19, 47-50 | 8.3 | 14 |
| 161 | Differential adsorption of gold nanoparticles to gold/palladium and platinum surfaces. *Langmuir*, **2014**, 30, 574-83 | 4 | 13 |
| 160 | High-throughput experimentation in resistive gas sensor materials development. *Journal of Materials Research*, **2013**, 28, 574-588 | 2.5 | 13 |
| 159 | Electrical properties of surface functionalized silicon nanoparticles. *Journal of Nanoparticle Research*, **2010**, 12, 1367-1375 | 2.3 | 13 |
| 158 | Electrical and optical properties of zeolite y supported sno2 nanoparticles. *Colloid and Polymer Science*, **1997**, 275, 91-95 | 2.4 | 13 |
| 157 | Tracking mobile active sites and intermediates in NH3-SCR over zeolite catalysts by impedance-based in situ spectroscopy. *Reaction Chemistry and Engineering*, **2019**, 4, 986-994 | 4.9 | 12 |
| 156 | Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays. *Macromolecular Rapid Communications*, **2016**, 37, 1446-52 | 4.8 | 12 |
| 155 | Volume-doped cobalt titanates for ethanol sensing: An impedance and X-ray absorption spectroscopy study. *Sensors and Actuators B: Chemical*, **2014**, 192, 60-69 | 8.5 | 12 |
| 154 | Glyco-DNA-gold nanoparticles: lectin-mediated assembly and dual-stimuli response. *Small*, **2011**, 7, 1954-60 | 10 | 12 |
| 153 | cis-Pt Mediated Assembly of Gold Nanoparticles on DNA. *Journal of Cluster Science*, **2007**, 18, 193-204 | 3 | 12 |
| 152 | Generation and electrical contacting of gold quantum dots. *Colloid and Polymer Science*, **2008**, 286, 1029-1037 | 2.4 | 12 |
| 151 | Metal clusters in plasma polymer matrices. *Physical Chemistry Chemical Physics*, **2002**, 4, 2438-2442 | 3.6 | 12 |

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| 150 | Electrochemical and Electronic Charge Transport Properties of Ni-Doped LiMn$_2$O$_4$ Spinel Obtained from Polyol-Mediated Synthesis. *Materials*, **2018**, 11, | 3.5 | 11 |
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