

Nicola Pinna

List of Publications by Year in Descending Order

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

251
papers

14,946
citations

66
h-index

116
g-index

295
ext. papers

16,407
ext. citations

8.4
avg, IF

6.84
L-index

#	Paper	IF	Citations
251	Influence of the Electronic Properties of the Ligand on the Photoelectrochemical Behavior of Au ₂₅ Nanocluster-Sensitized TiO ₂ Photoanode. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1778-1784	3.8	1
250	Recent Advances in Multimetal and Doped Transition-Metal Phosphides for the Hydrogen Evolution Reaction at Different pH values. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22077-22097	9.5	21
249	On the plasmon-assisted detection of a 1585 cm ⁻¹ mode in the 532 nm Raman spectra of crystalline Fe ₂ O ₃ /polycrystalline NiO core/shell nanofibers. <i>Applied Physics Letters</i> , 2021 , 118, 251105	3.4	0
248	Edge-enriched WS nanosheets on carbon nanofibers boosts NO detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125120	12.8	61
247	Secondary Phosphine Oxide Functionalized Gold Clusters and Their Application in Photoelectrocatalytic Hydrogenation Reactions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9595-9600	16.4	8
246	Impact of Different Intermediate Layers on the Morphology and Crystallinity of TiO ₂ Grown on Carbon Nanotubes by Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100759	4.6	1
245	Fluoro(Phosphates,Sulfates) or (Phosphate,Sulfate) Fluorides: Why Does It Matter?. <i>Advanced Energy Materials</i> , 2021 , 11, 2002971	21.8	1
244	The formation mechanism and chirality evolution of chiral carbon dots prepared radical assisted synthesis at room temperature. <i>Nanoscale</i> , 2021 , 13, 10478-10489	7.7	3
243	SnO ₂ -SiO ₂ 1D Core-Shell Nanowires Heterostructures for Selective Hydrogen Sensing. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100939	4.6	1
242	Mesoporous WC Films with NiO-Protected Surface: Highly Active Electrocatalysts for the Alkaline Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2021 , 14, 4708-4717	8.3	2
241	Transition metal sulfides meet electrospinning: versatile synthesis, distinct properties and prospective applications. <i>Nanoscale</i> , 2021 , 13, 9112-9146	7.7	7
240	CNT/AlO core-shell nanostructures for the electrochemical detection of dihydroxybenzene isomers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14064-14074	3.6	1
239	Comparing the Performance of Nb ₂ O ₅ Composites with Reduced Graphene Oxide and Amorphous Carbon in Li- and Na-Ion Electrochemical Storage Devices. <i>ChemElectroChem</i> , 2020 , 7, 1689-1698	4.3	10
238	Copper Thiophosphate (Cu ₃ PS ₄) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 1910583	15.6	8
237	MoS ₂ Van der Waals p/n Junctions Enabling Highly Selective Room-Temperature NO ₂ Sensor. <i>Advanced Functional Materials</i> , 2020 , 30, 2000435	15.6	107
236	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7748-7754	16.4	29
235	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. <i>Angewandte Chemie</i> , 2020 , 132, 7822-7828	3.6	3

234	Structure, Defects, and Magnetism of Electrospun Hematite Nanofibers Silica-Coated by Atomic Layer Deposition. <i>Langmuir</i> , 2020 , 36, 1305-1319	4	13
233	Toward Optimized Radial Modulation of the Space-Charge Region in One-Dimensional SnO-NiO Core-Shell Nanowires for Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4594-4608	9.5	32
232	The Importance of Ligand Selection on the Formation of Metal Phosphonate-Derived CoMoP and CoMoP ₂ Nanoparticles for Catalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4147-4156	5.6	12
231	Operando diffuse reflectance UV-vis spectroelectrochemistry for investigating oxygen evolution electrocatalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 517-528	5.5	8
230	Gas Sensing of NiO-SCCNT Core-Shell Heterostructures: Optimization by Radial Modulation of the Hole-Accumulation Layer. <i>Advanced Functional Materials</i> , 2020 , 30, 1906874	15.6	18
229	Morphology-controlled MoS ₂ by low-temperature atomic layer deposition. <i>Nanoscale</i> , 2020 , 12, 20404-20412	7.7	6
228	Sodium niobate based hierarchical 3D perovskite nanoparticle clusters. <i>Dalton Transactions</i> , 2020 , 49, 15195-15203	4.3	1
227	Investigations of Carbon Nitride-Supported Mn ₃ O ₄ Oxide Nanoparticles for ORR. <i>Catalysts</i> , 2020 , 10, 1289	4	4
226	Niobium-Doped Titanium Dioxide with High Dopant Contents for Enhanced Lithium-Ion Storage. <i>ChemElectroChem</i> , 2020 , 7, 4016-4023	4.3	6
225	Platinum single atoms on tin oxide ultrathin films for extremely sensitive gas detection. <i>Materials Horizons</i> , 2020 , 7, 1519-1527	14.4	117
224	Exploiting the Condensation Reactions of Acetophenone to Engineer Carbon-Encapsulated Nb ₂ O ₅ Nanocrystals for High-Performance Li and Na Energy Storage Systems. <i>Advanced Energy Materials</i> , 2019 , 9, 1902813	21.8	27
223	Polyethylene/phosphors composites, a novel treatment for LDPE plastic. <i>Optical Materials</i> , 2019 , 96, 109336	3.3	1
222	Ni Strongly Coupled with Mo ₂ C Encapsulated in Nitrogen-Doped Carbon Nanofibers as Robust Bifunctional Catalyst for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2019 , 9, 1803185	21.8	208
221	Highly Dispersible Hexagonal Carbon-MoS ₂ -Carbon Nanoplates with Hollow Sandwich Structures for Supercapacitors. <i>Chemistry - A European Journal</i> , 2019 , 25, 4757-4766	4.8	28
220	Vertically aligned TiO ₂ /ZnO nanotube arrays prepared by atomic layer deposition for photovoltaic applications. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1157-1163	2.8	8
219	A Superior Sodium/Lithium-Ion Storage Material: Sea Sponge C/SnFe@GO. <i>Inorganic Chemistry</i> , 2019 , 58, 7915-7924	5.1	7
218	Zn _{0.35} Co _{0.65} O ₄ A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. <i>Advanced Energy Materials</i> , 2019 , 9, 1900328	21.8	27
217	A general low-temperature synthesis route to polyanionic vanadium phosphate fluoride cathode materials: AVPO ₄ F (A = Li, Na, K) and Na ₃ V ₂ (PO ₄) ₂ F ₃ . <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2164-2174	7.8	6

216	Reversible Insertion in AFeF (A = K, NH) Cubic Iron Fluoride Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33132-33139	9.5	8
215	A Self-Limited Atomic Layer Deposition of WS ₂ Based on the Chemisorption and Reduction of Bis(t-butylimino)bis(dimethylamino) Complexes. <i>Chemistry of Materials</i> , 2019 , 31, 1881-1890	9.6	14
214	Fluorolytic Sol-Gel Route and Electrochemical Properties of Polyanionic Transition-Metal Phosphate Fluorides. <i>Chemistry - A European Journal</i> , 2019 , 25, 6189-6195	4.8	6
213	Niobium pentoxide nanomaterials with distorted structures as efficient acid catalysts. <i>Communications Chemistry</i> , 2019 , 2,	6.3	30
212	Atomically Precise Bimetallic Nanoclusters as Photosensitizers in Photoelectrochemical Cells. <i>Chemistry - A European Journal</i> , 2019 , 25, 4814-4820	4.8	14
211	Tuning the NiO Thin Film Morphology on Carbon Nanotubes by Atomic Layer Deposition for Enzyme-Free Glucose Sensing. <i>ChemElectroChem</i> , 2019 , 6, 383-392	4.3	30
210	Novel Synthesis of Anhydrous and Hydroxylated CuF Nanoparticles and Their Potential for Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 7177-7187	4.8	22
209	Enhancing the Lithium Storage Performance of Graphene/SnO Nanorods by a Carbon-Riveting Strategy. <i>ChemSusChem</i> , 2018 , 11, 1321-1327	8.3	46
208	A cross-species and model comparison of the acute toxicity of nanoparticles used in the pigment and ink industries. <i>NanoImpact</i> , 2018 , 11, 20-32	5.6	11
207	Tuning the sensitivity of lanthanide-activated NIR nanothermometers in the biological windows. <i>Nanoscale</i> , 2018 , 10, 2568-2576	7.7	58
206	Polarization Resistance-Free Mn ₃ O ₄ -Based Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 2010-2018	4.3	12
205	Cobalt-Assisted Morphology and Assembly Control of Co-Doped ZnO Nanoparticles. <i>Nanomaterials</i> , 2018 , 8,	5.4	21
204	Stabilization of Mesoporous Iron Oxide Films against Sintering and Phase Transformations via Atomic Layer Deposition of Alumina and Silica. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800360	4.6	9
203	Effect of passivating Al ₂ O ₃ thin films on MnO ₂ /carbon nanotube composite lithium-ion battery anodes. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	7
202	Optimization of the Activity of Ni-Based Nanostructures for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4554-4563	6.1	11
201	(Invited) Non-Aqueous Atomic Layer Deposition of SnO ₂ for Gas Sensing Application. <i>ECS Transactions</i> , 2018 , 86, 55-65	1	1
200	Are Electrospun Fibrous Membranes Relevant Electrode Materials for Li-Ion Batteries? The Case of the C/Ge/GeO ₂ Composite Fibers. <i>Advanced Functional Materials</i> , 2018 , 28, 1800938	15.6	19
199	Reversible Sodium and Lithium Insertion in Iron Fluoride Perovskites. <i>Advanced Functional Materials</i> , 2018 , 28, 1802057	15.6	14

198	Metal phosphonate coordination networks and frameworks as precursors of electrocatalysts for the hydrogen and oxygen evolution reactions. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	14
197	Sea-Sponge-like Structure of Nano-FeO on Skeleton-C with Long Cycle Life under High Rate for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19656-19663	9.5	41
196	Phonons in Hybrid Lamellar Supercrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1990-1996	3.8	1
195	Colloidal nanothermometers based on neodymium doped alkaline-earth fluorides in the first and second biological windows. <i>Sensors and Actuators B: Chemical</i> , 2017 , 250, 147-155	8.5	21
194	A facile synthesis of FeO/nitrogen-doped carbon hybrid nanofibers as a robust peroxidase-like catalyst for the sensitive colorimetric detection of ascorbic acid. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5499-5505	7.3	54
193	Atomic Layer Deposition of Silica on Carbon Nanotubes. <i>Chemistry of Materials</i> , 2017 , 29, 4920-4931	9.6	8
192	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14013-14022	9.5	44
191	Type I vs. quasi-type II modulation in CdSe@CdS tetrapods: ramifications for noble metal tipping. <i>CrystEngComm</i> , 2017 , 19, 6443-6453	3.3	11
190	Two-Dimensional Nanostructured Materials for Gas Sensing. <i>Advanced Functional Materials</i> , 2017 , 27, 1702168	15.6	397
189	Unifying Concepts in Room-Temperature CO Oxidation with Gold Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 8247-8254	3.54	27
188	Electrospun C/GeO ₂ paper-like electrodes for flexible Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28102-28112	6.7	19
187	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. <i>Advanced Energy Materials</i> , 2017 , 7, 1601301	21.8	246
186	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 465-474	21.8	241
185	Hybrid Organic-Inorganic Transition-Metal Phosphonates as Precursors for Water Oxidation Electrocatalysts. <i>Advanced Functional Materials</i> , 2017 , 27, 1703158	15.6	45
184	USPIO size control through microwave nonaqueous sol-gel method for neoangiogenesis T MRI contrast agent. <i>Nanomedicine</i> , 2016 , 11, 2769-2779	5.6	15
183	Are Electrospun Carbon/Metal Oxide Composite Fibers Relevant Electrode Materials for Li-Ion Batteries?. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2930-A2937	3.9	16
182	Nucleation, Growth Mechanism, and Controlled Coating of ZnO ALD onto Vertically Aligned N-Doped CNTs. <i>Langmuir</i> , 2016 , 32, 7038-44	4	14
181	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3226-32	9.5	35

180	ALD SnO ₂ protective decoration enhances the durability of a Pt based electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 969-975	13	30
179	Selective Dissolution of Surface Nickel Close to Platinum in PtNi Nanocatalyst toward Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2016 , 28, 1879-1887	9.6	36
178	Graphene/N-doped carbon sandwiched nanosheets with ultrahigh nitrogen doping for boosting lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1423-1431	13	118
177	Nanostructured Materials for Room-Temperature Gas Sensors. <i>Advanced Materials</i> , 2016 , 28, 795-831	24	914
176	Synthesis and Assembly of Dipolar Heterostructured Tetrapods: Colloidal Polymers with "Giant tert-butyl" Groups. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1787-91	16.4	17
175	Synthesis and Assembly of Dipolar Heterostructured Tetrapods: Colloidal Polymers with "Giant tert-butyl" Groups. <i>Angewandte Chemie</i> , 2016 , 128, 1819-1823	3.6	
174	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13437-48	9.5	92
173	Missing Piece of the Mechanism of the Turkevich Method: The Critical Role of Citrate Protonation. <i>Chemistry of Materials</i> , 2016 , 28, 4072-4081	9.6	48
172	Operando Mössbauer Spectroscopy Investigation of the Electrochemical Reaction with Lithium in Bronze-Type FeF ₃ ·0.33H ₂ O. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23933-23943	3.8	12
171	Atomic Layer Deposition to Materials for Gas Sensing Applications. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600335	4.6	27
170	Coating of Vertically Aligned Carbon Nanotubes by a Novel Manganese Oxide Atomic Layer Deposition Process for Binder-Free Hybrid Capacitors. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600313	4.6	8
169	Catalyst-free growth of carbon nanotube arrays directly on Inconel substrates for electrochemical carbon-based electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17804-17810	13	10
168	Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis. <i>ACS Nano</i> , 2015 , 9, 7052-71	16.7	212
167	Reliable palladium nanoparticle syntheses in aqueous solution: the importance of understanding precursor chemistry and growth mechanism. <i>CrystEngComm</i> , 2015 , 17, 1865-1870	3.3	35
166	Vertically aligned N-doped CNTs growth using Taguchi experimental design. <i>Applied Surface Science</i> , 2015 , 344, 57-64	6.7	10
165	Structural evolution of aragonite superstructures obtained in the presence of the siderophore deferoxamine. <i>CrystEngComm</i> , 2015 , 17, 3927-3935	3.3	4
164	Turning periodic mesoporous organosilicas selective to CO ₂ /CH ₄ separation: deposition of aluminium oxide by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22860-22867	13	15
163	Gas sensing properties and p-type response of ALD TiO ₂ coated carbon nanotubes. <i>Nanotechnology</i> , 2015 , 26, 024004	3.4	34

162	Colloidal polymers from inorganic nanoparticle monomers. <i>Progress in Polymer Science</i> , 2015 , 40, 85-120	29.6	58
161	Stabilization of Titanium Dioxide Nanoparticles at the Surface of Carbon Nanomaterials Promoted by Microwave Heating. <i>Chemistry - A European Journal</i> , 2015 , 21, 14901-10	4.8	11
160	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure-Property Relationships of Graphene Oxide-Iron Oxide Nanocomposites. <i>Chemistry - A European Journal</i> , 2015 , 21, 12465-74	4.8	27
159	Effect of 10 different TiO ₂ and ZrO ₂ (nano)materials on the soil invertebrate <i>Enchytraeus crypticus</i> . <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2409-16	3.8	19
158	Anomalous C-V response correlated to relaxation processes in TiO ₂ thin film based-metal-insulator-metal capacitor: Effect of titanium and oxygen defects. <i>Journal of Applied Physics</i> , 2015 , 117, 154101	2.5	8
157	Sulfonated graphene oxide as effective catalyst for conversion of 5-(hydroxymethyl)-2-furfural into biofuels. <i>ChemSusChem</i> , 2014 , 7, 804-12	8.3	75
156	Amperometric Sensing of H ₂ O ₂ using Pt/TiO ₂ /Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014 , 1, 617-624	4.3	46
155	A review on the application of iron(III) fluorides as positive electrodes for secondary cells. <i>Materials for Renewable and Sustainable Energy</i> , 2014 , 3, 1	4.7	43
154	Synthesis of ferromagnetic cobalt nanoparticle tipped CdSe@CdS nanorods: critical role of Pt-activation. <i>CrystEngComm</i> , 2014 , 16, 9461-9468	3.3	12
153	Verwey transition in single magnetite nanoparticles. <i>Physical Review B</i> , 2014 , 90,	3.3	20
152	Solid acids with SO ₃ H groups and tunable surface properties: versatile catalysts for biomass conversion. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11813-11824	13	85
151	Colloidal polymers from dipolar assembly of cobalt-tipped CdSe@CdS nanorods. <i>ACS Nano</i> , 2014 , 8, 3272-3284	16.7	32
150	Mesoporous carbon/silica solid acid catalysts for producing useful bio-products within the sugar-platform of biorefineries. <i>Green Chemistry</i> , 2014 , 16, 4292-4305	10	53
149	Microwave-assisted fluorolytic sol-gel route to iron fluoride nanoparticles for Li-ion batteries. <i>Chemical Communications</i> , 2014 , 50, 460-2	5.8	45
148	Microstructural, Electrical and Hydrogen Sensing Properties of F-SnO ₂ Nanoparticles. <i>Procedia Engineering</i> , 2014 , 87, 1087-1090		2
147	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014 , 1, 747-754	4.3	21
146	Highly ordered and vertically oriented TiO ₂ /Al ₂ O ₃ nanotube electrodes for application in dye-sensitized solar cells. <i>Nanotechnology</i> , 2014 , 25, 504003	3.4	34
145	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. <i>Nature Communications</i> , 2014 , 5, 5702	17.4	131

144	Sensing Behavior of SnO ₂ -Graphene Nanocomposites. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 417-420	6.20	0
143	In-vacuum projection of nanoparticles for on-chip tunneling spectroscopy. <i>ACS Nano</i> , 2013 , 7, 1487-94	16.7	8
142	Sensing behavior of SnO ₂ /reduced graphene oxide nanocomposites toward NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013 , 179, 61-68	8.5	147
141	Production of biomass-derived furanic ethers and levulinate esters using heterogeneous acid catalysts. <i>Green Chemistry</i> , 2013 , 15, 3367	10	81
140	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 3232-3253	23.2	83
139	Tin Dioxide-Carbon Heterostructures Applied to Gas Sensing: Structure-Dependent Properties and General Sensing Mechanism. <i>Journal of Physical Chemistry C</i> , 2013 , 130916143757006	3.8	13
138	THz nanocrystal acoustic vibrations from ZrO ₂ 3D supercrystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 8108	7.1	7
137	Zirconia-doped nanoparticles: organic coating, polymeric entrapment and application as dual-imaging agents. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 919-923	7.3	9
136	Nanoparticle self-assembly using π -interactions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2370-2378	13	26
135	Nanoparticles charge response from electrostatic force microscopy. <i>Applied Physics Letters</i> , 2013 , 102, 053118	3.4	6
134	Improved electrocatalytic stability in ethanol oxidation by microwave-assisted selective deposition of SnO ₂ and Pt onto carbon. <i>RSC Advances</i> , 2013 , 3, 7001	3.7	14
133	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 4293-4305	15.6	84
132	In Situ Infrared Spectroscopic Study of Atomic Layer-Deposited TiO ₂ Thin Films by Nonaqueous Routes. <i>Chemistry of Materials</i> , 2013 , 25, 1706-1712	9.6	31
131	Galvanic replacement reactions in metal oxide nanocrystals. <i>Science</i> , 2013 , 340, 964-8	33.3	421
130	Microwave-assisted coating of carbon nanostructures with titanium dioxide for the catalytic dehydration of D-xylose into furfural. <i>RSC Advances</i> , 2013 , 3, 2595	3.7	40
129	Atomic layer deposition of nanostructured materials for energy and environmental applications. <i>Advanced Materials</i> , 2012 , 24, 1017-32	24	444
128	Room-Temperature Hydrogen Sensing with Heteronanostructures Based on Reduced Graphene Oxide and Tin Oxide. <i>Angewandte Chemie</i> , 2012 , 124, 11215-11219	3.6	17
127	Room-temperature hydrogen sensing with heteronanostructures based on reduced graphene oxide and tin oxide. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11053-7	16.4	236

126	Labeling and monitoring the distribution of anchoring sites on functionalized CNTs by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7323		39
125	Fluorescent and paramagnetic core-shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20641		24
124	Selective deposition of Pt onto supported metal clusters for fuel cell electrocatalysts. <i>Nanoscale</i> , 2012 , 4, 6461-9	7.7	16
123	Directing the deposition of ferromagnetic cobalt onto Pt-tipped CdSe@CdS nanorods: synthetic and mechanistic insights. <i>ACS Nano</i> , 2012 , 6, 8632-45	16.7	57
122	Precursors for ALD Processes 2012 , 41-59		7
121	Theoretical Modeling of ALD Processes 2012 , 1-21		3
120	Atomic Layer Deposition for Microelectronic Applications 2012 , 159-192		7
119	Application of ALD to Biomaterials and Biocompatible Coatings 2012 , 301-325		4
118	Challenges in Atomic Layer Deposition 2012 , 401-421		3
117	Coatings of Nanoparticles and Nanowires 2012 , 251-270		
116	Plasma Atomic Layer Deposition 2012 , 131-157		5
115	Atomic Layer Deposition on Soft Materials 2012 , 271-300		14
114	Nanolaminates 2012 , 377-399		
113	Sol-Gel Chemistry and Atomic Layer Deposition 2012 , 61-82		4
112	Inverse Opal Photonics 2012 , 345-376		3
111	Step Coverage in ALD 2012 , 23-40		4
110	Coatings on High Aspect Ratio Structures 2012 , 227-249		14
109	Coating of Carbon Nanotubes 2012 , 327-343		7

108	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse SnO ₂ nanoparticles onto graphene for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2520-2525		113
107	Ultra simple catalyst layer preparation for the growth of vertically aligned CNTs and CNT-based nanostructures. <i>CrystEngComm</i> , 2012 , 14, 48-52	3-3	2
106	Low-Temperature Atomic Layer Deposition 2012 , 109-130		1
105	Nanopatterning by Area-Selective Atomic Layer Deposition 2012 , 193-225		29
104	MO _x /CNTs Hetero-Structures for Gas Sensing Applications: Role of CNTs Defects. <i>Procedia Engineering</i> , 2012 , 47, 1259-1262		3
103	Molecular Layer Deposition of Hybrid Organic-Inorganic Films 2012 , 83-107		6
102	One-step synthesis and self-assembly of metal oxide nanoparticles into 3D superlattices. <i>ACS Nano</i> , 2012 , 6, 4382-91	16.7	42
101	Comment on "Unusual Photoluminescence of CaHfO ₃ and SrHfO ₃ Nanoparticles" <i>Advanced Functional Materials</i> , 2012 , 22, 1112-1113	15.6	
100	One-Step Synthesis and Optical Properties of Benzoate- and Biphenolate-Capped ZrO ₂ Nanoparticles. <i>Advanced Functional Materials</i> , 2012 , 22, 4275-4283	15.6	40
99	Sensing Properties of SnO ₂ /CNFs Hetero-Junctions. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 105-108.2		4
98	Enhanced activity of Pt-based electrocatalysts for oxygen reduction via a selective Pt deposition process. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 662, 70-79	4.1	20
97	A one-pot microwave-assisted non-aqueous sol-gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. <i>RSC Advances</i> , 2011 , 1, 1687	3.7	72
96	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. <i>Chemistry of Materials</i> , 2011 , 23, 3318-3324	9.6	83
95	Hybrid dandelion-like YH(O ₃ PC ₆ H ₅) ₂ :Ln (Ln = Eu ³⁺ , Tb ³⁺) particles: formation mechanism, thermal and photoluminescence properties. <i>CrystEngComm</i> , 2011 , 13, 5226	3.3	6
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