Nicola Pinna

List of Publications by Citations

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	Nanostructured Materials for Room-Temperature Gas Sensors. *Advanced Materials*, **2016**, 28, 795-831	24	914
250	Atomic layer deposition of nanostructured materials for energy and environmental applications. *Advanced Materials*, **2012**, 24, 1017-32	24	444
249	Galvanic replacement reactions in metal oxide nanocrystals. *Science*, **2013**, 340, 964-8	33.3	421
248	Surfactant-free nonaqueous synthesis of metal oxide nanostructures. *Angewandte Chemie - International Edition*, **2008**, 47, 5292-304	16.4	406
247	Two-Dimensional Nanostructured Materials for Gas Sensing. *Advanced Functional Materials*, **2017**, 27, 1702168	15.6	397
246	Magnetite Nanocrystals: Nonaqueous Synthesis, Characterization, and Solubility *Chemistry of Materials*, **2005**, 17, 3044-3049	9.6	317
245	Periodically ordered nanoscale islands and mesoporous films composed of nanocrystalline multimetallic oxides. *Nature Materials*, **2004**, 3, 787-92	27	307
244	Highly Crystalline Cubic Mesoporous TiO2 with 10-nm Pore Diameter Made with a New Block Copolymer Template. *Chemistry of Materials*, **2004**, 16, 2948-2952	9.6	297
243	Nonaqueous synthesis of nanocrystalline semiconducting metal oxides for gas sensing. *Angewandte Chemie - International Edition*, **2004**, 43, 4345-9	16.4	294
242	Amorphous layer around aragonite platelets in nacre. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12653-5	11.5	294
241	Nonaqueous and halide-free route to crystalline BaTiO3, SrTiO3, and (Ba,Sr)TiO3 nanoparticles via a mechanism involving C-C bond formation. *Journal of the American Chemical Society*, **2004**, 126, 9120-6	16.4	250
240	A general soft-chemistry route to perovskites and related materials: synthesis of BaTiO(3), BaZrO(3), and LiNbO(3) nanoparticles. *Angewandte Chemie - International Edition*, **2004**, 43, 2270-3	16.4	249
239	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. *Advanced Energy Materials*, **2017**, 7, 1601301	21.8	246
238	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. *Applied Catalysis B: Environmental*, **2017**, 203, 465-474	21.8	241
237	Ligand-Directed Assembly of Preformed Titania Nanocrystals into Highly Anisotropic Nanostructures. *Advanced Materials*, **2004**, 16, 436-439	24	241
236	Room-temperature hydrogen sensing with heteronanostructures based on reduced graphene oxide and tin oxide. *Angewandte Chemie - International Edition*, **2012**, 51, 11053-7	16.4	236
235	Superstructures of Calcium Carbonate Crystals by Oriented Attachment. *Crystal Growth and Design*, **2005**, 5, 1317-1319	3.5	221

234	Single crystal manganese oxide multipods by oriented attachment. *Journal of the American Chemical Society*, **2005**, 127, 15034-5	16.4	214
233	Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis. *ACS Nano*, **2015**, 9, 7052-71	16.7	212
232	Ni Strongly Coupled with Mo2C Encapsulated in Nitrogen-Doped Carbon Nanofibers as Robust Bifunctional Catalyst for Overall Water Splitting. *Advanced Energy Materials*, **2019**, 9, 1803185	21.8	208
231	Growth and assembly of crystalline tungsten oxide nanostructures assisted by bioligation. *Journal of the American Chemical Society*, **2005**, 127, 15595-601	16.4	199
230	A general nonaqueous route to binary metal oxide nanocrystals involving a C-C bond cleavage. *Journal of the American Chemical Society*, **2005**, 127, 5608-12	16.4	196
229	Metal Oxide Nanoparticles in Organic Solvents. *Engineering Materials and Processes*, **2009**,		180
228	Triangular CdS Nanocrystals: Structural and Optical Studies. *Advanced Materials*, **2001**, 13, 261-264	24	180
227	Local Structure of Nanoscopic Materials: V2O5 Nanorods and Nanowires. *Nano Letters*, **2003**, 3, 1131-1134	11.5	158
226	Polymer-induced alignment of DL-alanine nanocrystals to crystalline mesostructures. *Chemistry - A European Journal*, **2005**, 11, 2903-13	4.8	153
225	Sensing behavior of SnO2/reduced graphene oxide nanocomposites toward NO2. *Sensors and Actuators B: Chemical*, **2013**, 179, 61-68	8.5	147
224	Non-Aqueous Synthesis of High-Purity Metal Oxide Nanopowders Using an Ether Elimination Process. *Advanced Materials*, **2004**, 16, 2196-2200	24	140
223	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. *Nature Communications*, **2014**, 5, 5702	17.4	131
222	Non-aqueous routes to crystalline metal oxide nanoparticles: Formation mechanisms and applications. *Progress in Solid State Chemistry*, **2005**, 33, 59-70	8	131
221	Nonaqueous synthesis of metal oxide nanoparticles:Review and indium oxide as case study for the dependence of particle morphology on precursors and solvents. *Journal of Sol-Gel Science and Technology*, **2006**, 40, 259-266	2.3	127
220	Ligand functionality as a versatile tool to control the assembly behavior of preformed titania nanocrystals. *Chemistry - A European Journal*, **2005**, 11, 3541-51	4.8	124
219	Graphene/N-doped carbon sandwiched nanosheets with ultrahigh nitrogen doping for boosting lithium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 1423-1431	13	118
218	Platinum single atoms on tin oxide ultrathin films for extremely sensitive gas detection. *Materials Horizons*, **2020**, 7, 1519-1527	14.4	117
217	Retrosynthesis of Nacre via Amorphous Precursor Particles. *Chemistry of Materials*, **2005**, 17, 6514-6516	9.6	114

216	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse SnO2 nanoparticles onto graphene for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 2520-2525		113
215	Microwave-assisted synthesis and characterization of flower shaped zinc oxide nanostructures. *Materials Letters*, **2009**, 63, 242-245	3.3	111
214	Synthesis and Characterization of Stable and Crystalline Ce1-xZrxO2 Nanoparticle Sols. *Chemistry of Materials*, **2004**, 16, 2599-2604	9.6	111
213	Solvent Dependent Shape and Magnetic Properties of Doped ZnO Nanostructures. *Advanced Functional Materials*, **2007**, 17, 3159-3169	15.6	110
212	Divanadium Pentoxide Nanorods. *Advanced Materials*, **2003**, 15, 329-331	24	109
211	MoS2 Van der Waals p□ Junctions Enabling Highly Selective Room-Temperature NO2 Sensor. *Advanced Functional Materials*, **2020**, 30, 2000435	15.6	107
210	CO gas sensing of ZnO nanostructures synthesized by an assisted microwave wet chemical route. *Sensors and Actuators B: Chemical*, **2009**, 143, 198-204	8.5	105
209	Synthesis of yttria-based crystalline and lamellar nanostructures and their formation mechanism. *Small*, **2005**, 1, 112-21	11	105
208	Microwave-assisted synthesis and characterization of tin oxide nanoparticles. *Materials Letters*, **2008**, 62, 3437-3440	3.3	101
207	Triangular CdS Nanocrystals: Synthesis, Characterization, and Stability. *Langmuir*, **2001**, 17, 7982-7987	4	100
206	Vanadium oxide sensing layer grown on carbon nanotubes by a new atomic layer deposition process. *Nano Letters*, **2008**, 8, 4201-4	11.5	98
205	Synthesis of stable aragonite superstructures by a biomimetic crystallization pathway. *Angewandte Chemie - International Edition*, **2005**, 44, 6004-9	16.4	95
204	The □benzyl alcohol route□an elegant approach towards organic□inorganic hybrid nanomaterials. *Journal of Materials Chemistry*, **2007**, 17, 2769-2774		94
203	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. *ACS Applied Materials & Interfaces*, **2016**, 8, 13437-48	9.5	92
202	Controlled assembly of preformed ceria nanocrystals into highly ordered 3D nanostructures. *Small*, **2005**, 1, 313-6	11	91
201	Solid acids with SO3H groups and tunable surface properties: versatile catalysts for biomass conversion. *Journal of Materials Chemistry A*, **2014**, 2, 11813-11824	13	85
200	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. *Advanced Functional Materials*, **2013**, 23, 4293-4305	15.6	84
199	Citric Acid-Assisted Hydrothermal Synthesis of Luminescent TbPO4:Eu Nanocrystals: Controlled Morphology and Tunable Emission. *Journal of Physical Chemistry C*, **2008**, 112, 18815-18820	3.8	84

198	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. *Coordination Chemistry Reviews*, **2013**, 257, 3232-3253	23.2	83
197	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. *Chemistry of Materials*, **2011**, 23, 3318-3324	9.6	83
196	Production of biomass-derived furanic ethers and levulinate esters using heterogeneous acid catalysts. *Green Chemistry*, **2013**, 15, 3367	10	81
195	A novel nonaqueous route to V2O3 and Nb2O5 nanocrystals. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 250, 211-213	5.1	77
194	In2O3 and Pt-In2O3 nanopowders for low temperature oxygen sensors. *Sensors and Actuators B: Chemical*, **2007**, 127, 455-462	8.5	76
193	Effect of the chemical composition on the sensing properties of In2O3–SnO2 nanoparticles synthesized by a non-aqueous method. *Sensors and Actuators B: Chemical*, **2008**, 130, 222-230	8.5	76
192	Sulfonated graphene oxide as effective catalyst for conversion of 5-(hydroxymethyl)-2-furfural into biofuels. *ChemSusChem*, **2014**, 7, 804-12	8.3	75
191	Evaporation-Induced Self-Assembly (EISA) at Its Limit: Ultrathin, Crystalline Patterns by Templating of Micellar Monolayers. *Advanced Materials*, **2006**, 18, 2260-2263	24	74
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189	A one-pot microwave-assisted non-aqueous sol–gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. *RSC Advances*, **2011**, 1, 1687	3.7	72
188	The generation of mesostructured crystalline CeO2, ZrO2 and CeO2–ZrO2 films using evaporation-induced self-assembly. *New Journal of Chemistry*, **2005**, 29, 237-242	3.6	72
187	Lanthanide-Based Lamellar Nanohybrids: Synthesis, Structural Characterization, and Optical Properties. *Chemistry of Materials*, **2006**, 18, 4493-4499	9.6	70
186	Tin Dioxide Sensing Layer Grown on Tubular Nanostructures by a Non-Aqueous Atomic Layer Deposition Process. *Advanced Functional Materials*, **2011**, 21, 658-666	15.6	68
185	Structural, optical and electrical characterization of antimony-substituted tin oxide nanoparticles. *Journal of Physics and Chemistry of Solids*, **2009**, 70, 993-999	3.9	62
184	Edge-enriched WS nanosheets on carbon nanofibers boosts NO detection at room temperature. *Journal of Hazardous Materials*, **2021**, 411, 125120	12.8	61
183	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In2O3 nanocrystals. *Chemical Communications*, **2005**, 6032-4	5.8	60
182	Colloidal polymers from inorganic nanoparticle monomers. *Progress in Polymer Science*, **2015**, 40, 85-120	29.6	58
181	Tuning the sensitivity of lanthanide-activated NIR nanothermometers in the biological windows. *Nanoscale*, **2018**, 10, 2568-2576	7.7	58

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179	Optical properties of silver nanocrystals self-organized in a two-dimensional superlattice: Substrate effect. *Physical Review B*, **2002**, 66,	3.3	55
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177	Mesoporous carbon–silica solid acid catalysts for producing useful bio-products within the sugar-platform of biorefineries. *Green Chemistry*, **2014**, 16, 4292-4305	10	53
176	A General Soft-Chemistry Route to Perovskites and Related Materials: Synthesis of BaTiO3, BaZrO3, and LiNbO3 Nanoparticles. *Angewandte Chemie*, **2004**, 116, 2320-2323	3.6	52
175	Photoluminescence, cytotoxicity and in vitro imaging of hexagonal terbium phosphate nanoparticles doped with europium. *Nanoscale*, **2011**, 3, 1263-9	7.7	50
174	The controlled deposition of metal oxides onto carbon nanotubes by atomic layer deposition: examples and a case study on the application of V2O4 coated nanotubes in gas sensing. *Physical Chemistry Chemical Physics*, **2009**, 11, 3615-22	3.6	49
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172	Missing Piece of the Mechanism of the Turkevich Method: The Critical Role of Citrate Protonation. *Chemistry of Materials*, **2016**, 28, 4072-4081	9.6	48
171	Nonaqueous synthesis, assembly and formation mechanisms of metal oxide nanocrystals. *International Journal of Nanotechnology*, **2007**, 4, 263	1.5	47
170	Enhancing the Lithium Storage Performance of Graphene/SnO Nanorods by a Carbon-Riveting Strategy. *ChemSusChem*, **2018**, 11, 1321-1327	8.3	46
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166	Microwave-assisted fluorolytic sol-gel route to iron fluoride nanoparticles for Li-ion batteries. *Chemical Communications*, **2014**, 50, 460-2	5.8	45
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164	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. *ACS Applied Materials & Interfaces*, **2017**, 9, 14013-14022	9.5	44
163	Non-aqueous routes to metal oxide thin films by atomic layer deposition. *Angewandte Chemie - International Edition*, **2008**, 47, 3592-5	16.4	44

162	A review on the application of iron(III) fluorides as positive electrodes for secondary cells. *Materials for Renewable and Sustainable Energy*, **2014**, 3, 1	4.7	43
161	One-step synthesis and self-assembly of metal oxide nanoparticles into 3D superlattices. *ACS Nano*, **2012**, 6, 4382-91	16.7	42
160	Sea-Sponge-like Structure of Nano-FeO on Skeleton-C with Long Cycle Life under High Rate for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 19656-19663	9.5	41
159	One-Step Synthesis and Optical Properties of Benzoate- and Biphenolate-Capped ZrO2 Nanoparticles. *Advanced Functional Materials*, **2012**, 22, 4275-4283	15.6	40
158	Microwave-assisted coating of carbon nanostructures with titanium dioxide for the catalytic dehydration of D-xylose into furfural. *RSC Advances*, **2013**, 3, 2595	3.7	40
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148	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. *Angewandte Chemie*, **2004**, 116, 4445-4449	3.6	35
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143	Colloidal polymers from dipolar assembly of cobalt-tipped CdSe@CdS nanorods. *ACS Nano*, **2014**, 8, 3272-84	13.7	32
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135	Nanopatterning by Area-Selective Atomic Layer Deposition **2012**, 193-225		29
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125	Nanoparticle self-assembly using Interactions. *Journal of Materials Chemistry A*, **2013**, 1, 2370-2378	13	26
124	Fluorescent and paramagnetic core Shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. *Journal of Materials Chemistry*, **2012**, 22, 20641		24
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122	Synthesis and functional verification of the unsupported active phase of VxOy catalysts for partial oxidation of n-butane. *Journal of Catalysis*, **2005**, 236, 221-232	7.3	23
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109	Gas Sensing of NiO-SCCNT Core Shell Heterostructures: Optimization by Radial Modulation of the Hole-Accumulation Layer. *Advanced Functional Materials*, **2020**, 30, 1906874	15.6	18

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100	Nucleation, Growth Mechanism, and Controlled Coating of ZnO ALD onto Vertically Aligned N-Doped CNTs. *Langmuir*, **2016**, 32, 7038-44	4	14
99	Atomic Layer Deposition on Soft Materials **2012**, 271-300		14
98	Coatings on High Aspect Ratio Structures **2012**, 227-249		14
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