

Nicola Pinna

List of Publications by Year in descending order

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239
papers

17,972
citations

12303

69
h-index

15218

126
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295
all docs

295
docs citations

295
times ranked

21432
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Materials for Room-Temperature Gas Sensors. <i>Advanced Materials</i> , 2016, 28, 795-831.	11.1	1,192
2	Two-Dimensional Nanostructured Materials for Gas Sensing. <i>Advanced Functional Materials</i> , 2017, 27, 1702168.	7.8	588
3	Atomic Layer Deposition of Nanostructured Materials for Energy and Environmental Applications. <i>Advanced Materials</i> , 2012, 24, 1017-1032.	11.1	516
4	Galvanic Replacement Reactions in Metal Oxide Nanocrystals. <i>Science</i> , 2013, 340, 964-968.	6.0	472
5	Surfactant-Free Nonaqueous Synthesis of Metal Oxide Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5292-5304.	7.2	437
6	Magnetite Nanocrystals: A Nonaqueous Synthesis, Characterization, and Solubility. <i>Chemistry of Materials</i> , 2005, 17, 3044-3049.	3.2	341
7	Amorphous layer around aragonite platelets in nacre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12653-12655.	3.3	339
8	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1601301.	10.2	334
9	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 465-474.	10.8	328
10	Periodically ordered nanoscale islands and mesoporous films composed of nanocrystalline multimetallic oxides. <i>Nature Materials</i> , 2004, 3, 787-792.	13.3	327
11	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4345-4349.	7.2	313
12	Highly Crystalline Cubic Mesoporous TiO ₂ with 10-nm Pore Diameter Made with a New Block Copolymer Template. <i>Chemistry of Materials</i> , 2004, 16, 2948-2952.	3.2	309
13	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.	10.2	306
14	Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis. <i>ACS Nano</i> , 2015, 9, 7052-7071.	7.3	300
15	A General Soft-Chemistry Route to Perovskites and Related Materials: Synthesis of BaTiO ₃ , BaZrO ₃ , and LiNbO ₃ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2270-2273.	7.2	270
16	Nonaqueous and Halide-Free Route to Crystalline BaTiO ₃ , SrTiO ₃ , and (Ba,Sr)TiO ₃ Nanoparticles via a Mechanism Involving C-C Bond Formation. <i>Journal of the American Chemical Society</i> , 2004, 126, 9120-9126.	6.6	265
17	Room-Temperature Hydrogen Sensing with Heteronanostructures Based on Reduced Graphene Oxide and Tin Oxide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11053-11057.	7.2	259
18	Ligand-Directed Assembly of Preformed Titania Nanocrystals into Highly Anisotropic Nanostructures. <i>Advanced Materials</i> , 2004, 16, 436-439.	11.1	255

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19	Superstructures of Calcium Carbonate Crystals by Oriented Attachment. <i>Crystal Growth and Design</i> , 2005, 5, 1317-1319.	1.4	241
20	Single Crystal Manganese Oxide Multipods by Oriented Attachment. <i>Journal of the American Chemical Society</i> , 2005, 127, 15034-15035.	6.6	227
21	Growth and Assembly of Crystalline Tungsten Oxide Nanostructures Assisted by Bioligation. <i>Journal of the American Chemical Society</i> , 2005, 127, 15595-15601.	6.6	213
22	Metal Oxide Nanoparticles in Organic Solvents. <i>Engineering Materials and Processes</i> , 2009, , .	0.2	212
23	A General Nonaqueous Route to Binary Metal Oxide Nanocrystals Involving a C-C Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2005, 127, 5608-5612.	6.6	209
24	Platinum single atoms on tin oxide ultrathin films for extremely sensitive gas detection. <i>Materials Horizons</i> , 2020, 7, 1519-1527.	6.4	200
25	MoS ₂ Van der Waals Heterojunctions Enabling Highly Selective Room-Temperature NO ₂ Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 2000435.	7.8	190
26	Triangular CdS Nanocrystals: Structural and Optical Studies. <i>Advanced Materials</i> , 2001, 13, 261-264.	11.1	185
27	Local Structure of Nanoscopic Materials: V ₂ O ₅ Nanorods and Nanowires. <i>Nano Letters</i> , 2003, 3, 1131-1134.	4.5	170
28	Sensing behavior of SnO ₂ /reduced graphene oxide nanocomposites toward NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 61-68.	4.0	160
29	Non-Aqueous Synthesis of High-Purity Metal Oxide Nanopowders Using an Ether Elimination Process. <i>Advanced Materials</i> , 2004, 16, 2196-2200.	11.1	157
30	Polymer-Induced Alignment of dl-Alanine Nanocrystals to Crystalline Mesostructures. <i>Chemistry - A European Journal</i> , 2005, 11, 2903-2913.	1.7	156
31	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. <i>Nature Communications</i> , 2014, 5, 5702.	5.8	146
32	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.	5.2	146
33	Non-aqueous routes to crystalline metal oxide nanoparticles: Formation mechanisms and applications. <i>Progress in Solid State Chemistry</i> , 2005, 33, 59-70.	3.9	140
34	Nonaqueous synthesis of metal oxide nanoparticles: Review and indium oxide as case study for the dependence of particle morphology on precursors and solvents. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 259-266.	1.1	136
35	Ligand Functionality as a Versatile Tool to Control the Assembly Behavior of Preformed Titania Nanocrystals. <i>Chemistry - A European Journal</i> , 2005, 11, 3541-3551.	1.7	133
36	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.	4.0	133

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37	Edge-enriched WS ₂ nanosheets on carbon nanofibers boosts NO ₂ detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021, 411, 125120.	6.5	132
38	Microwave-assisted synthesis and characterization of flower shaped zinc oxide nanostructures. <i>Materials Letters</i> , 2009, 63, 242-245.	1.3	130
39	Retrosynthesis of Nacre via Amorphous Precursor Particles. <i>Chemistry of Materials</i> , 2005, 17, 6514-6516.	3.2	126
40	Microwave-assisted synthesis and characterization of tin oxide nanoparticles. <i>Materials Letters</i> , 2008, 62, 3437-3440.	1.3	124
41	CO gas sensing of ZnO nanostructures synthesized by an assisted microwave wet chemical route. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 198-204.	4.0	122
42	Synthesis and Characterization of Stable and Crystalline Ce _{1-x} Zr _x O ₂ Nanoparticle Sols. <i>Chemistry of Materials</i> , 2004, 16, 2599-2604.	3.2	119
43	Divanadium Pentoxide Nanorods. <i>Advanced Materials</i> , 2003, 15, 329-331.	11.1	118
44	Synthesis of Yttria-Based Crystalline and Lamellar Nanostructures and their Formation Mechanism. <i>Small</i> , 2004, 1, 112-121.	5.2	118
45	Solvent Dependent Shape and Magnetic Properties of Doped ZnO Nanostructures. <i>Advanced Functional Materials</i> , 2007, 17, 3159-3169.	7.8	116
46	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.	6.7	116
47	Triangular CdS Nanocrystals: Synthesis, Characterization, and Stability. <i>Langmuir</i> , 2001, 17, 7982-7987.	1.6	108
48	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, 13437-13448.	4.0	108
49	Vanadium Oxide Sensing Layer Grown on Carbon Nanotubes by a New Atomic Layer Deposition Process. <i>Nano Letters</i> , 2008, 8, 4201-4204.	4.5	103
50	Synthesis of Stable Aragonite Superstructures by a Biomimetic Crystallization Pathway. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6004-6009.	7.2	102
51	The "benzyl alcohol route" an elegant approach towards organic-inorganic hybrid nanomaterials. <i>Journal of Materials Chemistry</i> , 2007, 17, 2769-2774.	6.7	100
52	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.	5.2	98
53	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4293-4305.	7.8	96
54	Controlled Assembly of Preformed Ceria Nanocrystals into Highly Ordered 3D Nanostructures. <i>Small</i> , 2005, 1, 313-316.	5.2	95

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55	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. <i>Coordination Chemistry Reviews</i> , 2013, 257, 3232-3253.	9.5	93
56	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.	3.2	92
57	Sulfonated Graphene Oxide as Effective Catalyst for Conversion of 5-(Hydroxymethyl)-2-furfural into Biofuels. <i>ChemSusChem</i> , 2014, 7, 804-812.	3.6	90
58	In ₂ O ₃ and Pt-In ₂ O ₃ nanopowders for low temperature oxygen sensors. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 455-462.	4.0	89
59	Production of biomass-derived furanic ethers and levulinate esters using heterogeneous acid catalysts. <i>Green Chemistry</i> , 2013, 15, 3367.	4.6	89
60	Citric Acid-Assisted Hydrothermal Synthesis of Luminescent TbPO ₄ :Eu Nanocrystals: Controlled Morphology and Tunable Emission. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18815-18820.	1.5	87
61	Surfactant-free nonaqueous synthesis of lithium titanium oxide (LTO) nanostructures for lithium ion battery applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 806-810.	6.7	83
62	A novel nonaqueous route to V ₂ O ₃ and Nb ₂ O ₅ nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 211-213.	2.3	82
63	Effect of the chemical composition on the sensing properties of In ₂ O ₃ @SnO ₂ nanoparticles synthesized by a non-aqueous method. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 222-230.	4.0	81
64	Evaporation-Induced Self-Assembly (EISA) at Its Limit: Ultrathin, Crystalline Patterns by Templating of Micellar Monolayers. <i>Advanced Materials</i> , 2006, 18, 2260-2263.	11.1	78
65	Tin Dioxide Sensing Layer Grown on Tubular Nanostructures by a Non-Aqueous Atomic Layer Deposition Process. <i>Advanced Functional Materials</i> , 2011, 21, 658-666.	7.8	77
66	The generation of mesostructured crystalline CeO ₂ , ZrO ₂ and CeO ₂ @ZrO ₂ films using evaporation-induced self-assembly. <i>New Journal of Chemistry</i> , 2005, 29, 237-242.	1.4	75
67	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.	1.7	75
68	Lanthanide-Based Lamellar Nanohybrids: Synthesis, Structural Characterization, and Optical Properties. <i>Chemistry of Materials</i> , 2006, 18, 4493-4499.	3.2	74
69	Tuning the sensitivity of lanthanide-activated NIR nanothermometers in the biological windows. <i>Nanoscale</i> , 2018, 10, 2568-2576.	2.8	72
70	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In ₂ O ₃ nanocrystals. <i>Chemical Communications</i> , 2005, , 6032.	2.2	71
71	Structural, optical and electrical characterization of antimony-substituted tin oxide nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 993-999.	1.9	67
72	Colloidal polymers from inorganic nanoparticle monomers. <i>Progress in Polymer Science</i> , 2015, 40, 85-120.	11.8	67

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73	Directing the Deposition of Ferromagnetic Cobalt onto Pt-Tipped CdSe@CdS Nanorods: Synthetic and Mechanistic Insights. <i>ACS Nano</i> , 2012, 6, 8632-8645.	7.3	65
74	A facile synthesis of Fe ₃ O ₄ /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.	2.9	65
75	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.	4.6	62
76	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14013-14022.	4.0	59
77	Niobium pentoxide nanomaterials with distorted structures as efficient acid catalysts. <i>Communications Chemistry</i> , 2019, 2, .	2.0	59
78	Optical properties of silver nanocrystals self-organized in a two-dimensional superlattice: Substrate effect. <i>Physical Review B</i> , 2002, 66, .	1.1	57
79	Missing Piece of the Mechanism of the Turkevich Method: The Critical Role of Citrate Protonation. <i>Chemistry of Materials</i> , 2016, 28, 4072-4081.	3.2	57
80	Photoluminescence, cytotoxicity and in vitro imaging of hexagonal terbium phosphatenanoparticles doped with europium. <i>Nanoscale</i> , 2011, 3, 1263-1269.	2.8	56
81	Amperometric Sensing of H ₂ O ₂ using Pt-TiO ₂ /Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014, 1, 617-624.	1.7	56
82	Sea-Sponge-like Structure of Nano-Fe ₃ O ₄ on Skeleton-C with Long Cycle Life under High Rate for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19656-19663.	4.0	56
83	Transition Metal-Doped ZrO ₂ and HfO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12048-12058.	1.5	55
84	Hybrid Organic-Inorganic Transition-Metal Phosphonates as Precursors for Water Oxidation Electrocatalysts. <i>Advanced Functional Materials</i> , 2017, 27, 1703158.	7.8	55
85	Toward Optimized Radial Modulation of the Space-Charge Region in One-Dimensional SnO ₂ -NiO Core-Shell Nanowires for Hydrogen Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4594-4606.	4.0	55
86	The controlled deposition of metal oxides onto carbon nanotubes by atomic layer deposition: examples and a case study on the application of V ₂ O ₄ coated nanotubes in gas sensing. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3615.	1.3	54
87	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.	1.5	54
88	Nonaqueous synthesis, assembly and formation mechanisms of metal oxide nanocrystals. <i>International Journal of Nanotechnology</i> , 2007, 4, 263.	0.1	52
89	Surfactant-Mediated Generation of Iso-Oriented Dense and Mesoporous Crystalline Metal-Oxide Layers. <i>Advanced Materials</i> , 2006, 18, 1827-1831.	11.1	50
90	Non-Aqueous Routes to Metal Oxide Thin Films by Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3592-3595.	7.2	50

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91	Enhancing the Lithium Storage Performance of Graphene/SnO ₂ Nanorods by a Carbon-Riveting Strategy. ChemSusChem, 2018, 11, 1321-1327.	3.6	50
92	Manganese-Doped Zirconia Nanocrystals. European Journal of Inorganic Chemistry, 2008, 2008, 863-868.	1.0	49
93	Reliable palladium nanoparticle syntheses in aqueous solution: the importance of understanding precursor chemistry and growth mechanism. CrystEngComm, 2015, 17, 1865-1870.	1.3	49
94	Exploiting the Condensation Reactions of Acetophenone to Engineer Carbon-Encapsulated Nb ₂ O ₅ Nanocrystals for High-Performance Li and Na Energy Storage Systems. Advanced Energy Materials, 2019, 9, 1902813.	10.2	49
95	One-Step Synthesis and Self-Assembly of Metal Oxide Nanoparticles into 3D Superlattices. ACS Nano, 2012, 6, 4382-4391.	7.3	48
96	Microwave-assisted fluorolytic sol-gel route to iron fluoride nanoparticles for Li-Ion batteries. Chemical Communications, 2014, 50, 460-462.	2.2	47
97	Tuning the NiO Thin Film Morphology on Carbon Nanotubes by Atomic Layer Deposition for Enzyme-Free Glucose Sensing. ChemElectroChem, 2019, 6, 383-392.	1.7	47
98	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie - International Edition, 2020, 59, 7748-7754.	7.2	47
99	Towards enhanced performances in gas sensing: SnO ₂ based nanocrystalline oxides application. Sensors and Actuators B: Chemical, 2007, 122, 564-571.	4.0	46
100	Microwave-assisted coating of carbon nanostructures with titanium dioxide for the catalytic dehydration of d-xylose into furfural. RSC Advances, 2013, 3, 2595.	1.7	45
101	Labeling and monitoring the distribution of anchoring sites on functionalized CNTs by atomic layer deposition. Journal of Materials Chemistry, 2012, 22, 7323.	6.7	44
102	Selective Dissolution of Surface Nickel Close to Platinum in PtNi Nanocatalyst toward Oxygen Reduction Reaction. Chemistry of Materials, 2016, 28, 1879-1887.	3.2	43
103	One-Step Synthesis and Optical Properties of Benzoate- and Biphenolate-Capped ZrO ₂ Nanoparticles. Advanced Functional Materials, 2012, 22, 4275-4283.	7.8	42
104	Zn _{0.35} Co _{0.65} O - A Stable and Highly Active Oxygen Evolution Catalyst Formed by Zinc Leaching and Tetrahedral Coordinated Cobalt in Wurtzite Structure. Advanced Energy Materials, 2019, 9, 1900328.	10.2	41
105	Non-aqueous sol-gel routes applied to atomic layer deposition of oxides. Journal of Materials Chemistry, 2009, 19, 454-462.	6.7	39
106	Colloidal Polymers from Dipolar Assembly of Cobalt-Tipped CdSe@CdS Nanorods. ACS Nano, 2014, 8, 3272-3284.	7.3	39
107	Gas sensing properties and p-type response of ALD TiO ₂ coated carbon nanotubes. Nanotechnology, 2015, 26, 024004.	1.3	39
108	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 3226-3232.	4.0	39

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109	ALD SnO ₂ protective decoration enhances the durability of a Pt based electrocatalyst. Journal of Materials Chemistry A, 2016, 4, 969-975.	5.2	39
110	Optical Response of Ultrafine Spherical Silver Nanoparticles Arranged in Hexagonal Planar Arrays Studied by the DDA Method. Journal of Physical Chemistry A, 2009, 113, 4094-4099.	1.1	38
111	The "benzyl alcohol route": An elegant approach towards doped and multimetal oxide nanocrystals. Journal of Sol-Gel Science and Technology, 2011, 57, 323-329.	1.1	38
112	Highly ordered and vertically oriented TiO ₂ /Al ₂ O ₃ nanotube electrodes for application in dye-sensitized solar cells. Nanotechnology, 2014, 25, 504003.	1.3	38
113	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure-Property Relationships of Graphene Oxide-Iron Oxide Nanocomposites. Chemistry - A European Journal, 2015, 21, 12465-12474.	1.7	38
114	Photoluminescent Rare-Earth Based Biphenolate Lamellar Nanostructures. Journal of Physical Chemistry C, 2007, 111, 2539-2544.	1.5	37
115	Atomic Layer Deposition to Materials for Gas Sensing Applications. Advanced Materials Interfaces, 2016, 3, 1600335.	1.9	37
116	In Situ Infrared Spectroscopic Study of Atomic Layer-Deposited TiO ₂ Thin Films by Nonaqueous Routes. Chemistry of Materials, 2013, 25, 1706-1712.	3.2	35
117	Highly Dispersible Hexagonal Carbon-MoS ₂ Carbon Nanoplates with Hollow Sandwich Structures for Supercapacitors. Chemistry - A European Journal, 2019, 25, 4757-4766.	1.7	35
118	Transition metal sulfides meet electrospinning: versatile synthesis, distinct properties and prospective applications. Nanoscale, 2021, 13, 9112-9146.	2.8	35
119	Novel Synthesis of Anhydrous and Hydroxylated CuF ₂ Nanoparticles and Their Potential for Lithium Ion Batteries. Chemistry - A European Journal, 2018, 24, 7177-7187.	1.7	34
120	Unifying Concepts in Room-Temperature CO Oxidation with Gold Catalysts. ACS Catalysis, 2017, 7, 8247-8254.	5.5	33
121	Reversible Sodium and Lithium Insertion in Iron Fluoride Perovskites. Advanced Functional Materials, 2018, 28, 1802057.	7.8	33
122	Gas Sensing of NiO@SCCNT Core-Shell Heterostructures: Optimization by Radial Modulation of the Hole Accumulation Layer. Advanced Functional Materials, 2020, 30, 1906874.	7.8	33
123	Geometric and electronic structure of V ₂ O ₅ : Comparison between V ₂ O ₅ and V ₂ O ₅ . Physical Review B, 2004, 69, .	1.1	32
124	Optical Properties of Lanthanide-Doped Lamellar Nanohybrids. ChemPhysChem, 2006, 7, 2215-2222.	1.0	31
125	Evaluation of Entropy-Stabilized (Mg _{0.2} Co _{0.2} Ni _{0.2} Cu _{0.2} Zn _{0.2})O Oxides Produced via Solvothermal Method or Electrospinning as Anodes in Lithium-Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	31
126	Atomic Layer Deposition of Metal Oxides and Chalcogenides for High Performance Transistors. Advanced Science, 2022, 9, .	5.6	30

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127	Magnetic properties of cobalt and manganese doped ZnO nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 118-124.	0.8	29
128	A general nonaqueous route to crystalline alkaline earth aluminate nanostructures. <i>Nanoscale</i> , 2009, 1, 360.	2.8	29
129	Micro-Raman investigation of vanadium-oxide coated tubular carbon nanofibers for gas-sensing applications. <i>Diamond and Related Materials</i> , 2010, 19, 590-594.	1.8	29
130	Nanoparticle self-assembly using π - π interactions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2370-2378.	5.2	29
131	Cobalt-Assisted Morphology and Assembly Control of Co-Doped ZnO Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 249.	1.9	28
132	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.	4.0	27
133	Carboxylic Acids as Oxygen Sources for the Atomic Layer Deposition of High- κ Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12754-12759.	1.5	26
134	Chemistry and physics of metal oxide nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3607.	1.3	26
135	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014, 1, 747-754.	1.7	26
136	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, 2409-2416.	2.2	26
137	Copper Thiophosphate (Cu_3PS_4) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1910583.	7.8	25
138	Synthesis and functional verification of the unsupported active phase of VxOy catalysts for partial oxidation of n-butane. <i>Journal of Catalysis</i> , 2005, 236, 221-232.	3.1	24
139	Fluorescent and paramagnetic core-shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 20641.	6.7	24
140	Synthesis and Assembly of Dipolar Heterostructured Tetrapods: Colloidal Polymers with Giant tert-butyl Groups. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1787-1791.	7.2	24
141	A Self-Limited Atomic Layer Deposition of WS_2 Based on the Chemisorption and Reduction of Bis(<i>tert</i> -butylimino)bis(dimethylamino) Complexes. <i>Chemistry of Materials</i> , 2019, 31, 1881-1890.	3.2	24
142	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.	6.6	24
143	Comparing the Performance of Nb_2O_5 Composites with Reduced Graphene Oxide and Amorphous Carbon in Li- and Na-Ion Electrochemical Storage Devices. <i>ChemElectroChem</i> , 2020, 7, 1689-1698.	1.7	23
144	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.	2.4	23

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145	Verwey transition in single magnetite nanoparticles. <i>Physical Review B</i> , 2014, 90, .	1.1	22
146	Electrospun C/GeO ₂ paper-like electrodes for flexible Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28102-28112.	3.8	22
147	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.	7.8	22
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