

Nicola Pinna

List of Publications by Year in descending order

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350
papers

20,395
citations

9389

74
h-index

12899

133
g-index

400
all docs

400
docs citations

400
times ranked

31503
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured Materials for Room-Temperature Gas Sensors. <i>Advanced Materials</i> , 2016, 28, 795-831.	24.3	1,261
2	Two-Dimensional Nanostructured Materials for Gas Sensing. <i>Advanced Functional Materials</i> , 2017, 27, 1702168.	16.5	633
3	Atomic Layer Deposition of Nanostructured Materials for Energy and Environmental Applications. <i>Advanced Materials</i> , 2012, 24, 1017-1032.	24.3	528
4	Surfactant-Free Nonaqueous Synthesis of Metal Oxide Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5292-5304.	14.8	446
5	Small Adsorbate-Assisted Shape Control of Pd and Pt Nanocrystals. <i>Advanced Materials</i> , 2012, 24, 862-879.	24.3	420
6	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1601301.	22.2	354
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.	7.6	347
8	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 465-474.	20.7	344
9	Magnetite Nanocrystals: A Nonaqueous Synthesis, Characterization, and Solubility. <i>Chemistry of Materials</i> , 2005, 17, 3044-3049.	7.1	342
10	Periodically ordered nanoscale islands and mesoporous films composed of nanocrystalline multimetallic oxides. <i>Nature Materials</i> , 2004, 3, 787-792.	26.6	328
11	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.	22.2	325
12	Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis. <i>ACS Nano</i> , 2015, 9, 7052-7071.	15.3	318
13	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4345-4349.	14.8	316
14	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.	7.1	309
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.	14.8	274
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.	14.6	271
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.	14.8	262
18	Ligand-Directed Assembly of Preformed Titania Nanocrystals into Highly Anisotropic Nanostructures. <i>Advanced Materials</i> , 2004, 16, 436-439.	24.3	256

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19	Superstructures of Calcium Carbonate Crystals by Oriented Attachment. <i>Crystal Growth and Design</i> , 2005, 5, 1317-1319.	3.2	244
20	Single Crystal Manganese Oxide Multipods by Oriented Attachment. <i>Journal of the American Chemical Society</i> , 2005, 127, 15034-15035.	14.6	229
21	Platinum single atoms on tin oxide ultrathin films for extremely sensitive gas detection. <i>Materials Horizons</i> , 2020, 7, 1519-1527.	12.8	217
22	Growth and Assembly of Crystalline Tungsten Oxide Nanostructures Assisted by Biologation. <i>Journal of the American Chemical Society</i> , 2005, 127, 15595-15601.	14.6	214
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.	14.6	211
24	MoS ₂ Van der Waals p-n Junctions Enabling Highly Selective Room-Temperature NO ₂ Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 2000435.	16.5	208
25	Triangular CdS Nanocrystals: Structural and Optical Studies. <i>Advanced Materials</i> , 2001, 13, 261-264.	24.3	185
26	Local Structure of Nanoscopic Materials: V ₂ O ₅ Nanorods and Nanowires. <i>Nano Letters</i> , 2003, 3, 1131-1134.	9.5	173
27	Sensing behavior of SnO ₂ /reduced graphene oxide nanocomposites toward NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 61-68.	8.0	163
28	Non-Aqueous Synthesis of High-Purity Metal Oxide Nanopowders Using an Ether Elimination Process. <i>Advanced Materials</i> , 2004, 16, 2196-2200.	24.3	159
29	Polymer-Induced Alignment of dl-Alanine Nanocrystals to Crystalline Mesostructures. <i>Chemistry - A European Journal</i> , 2005, 11, 2903-2913.	3.9	157
30	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.	8.3	157
31	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.	10.5	151
32	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. <i>Nature Communications</i> , 2014, 5, 5702.	13.2	149
33	Edge-enriched WS ₂ nanosheets on carbon nanofibers boosts NO ₂ detection at room temperature. <i>Journal of Hazardous Materials</i> , 2021, 411, 125120.	12.6	145
34	Non-aqueous routes to crystalline metal oxide nanoparticles: Formation mechanisms and applications. <i>Progress in Solid State Chemistry</i> , 2005, 33, 59-70.	7.5	140
35	Formation of s^3p -Bonded Carbon Nanostructures by Femtosecond Laser Excitation of Graphite. <i>Physical Review Letters</i> , 2009, 102, 087402.	8.0	139
36	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.	2.3	136

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37	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.	3.9	133
38	Microwave-assisted synthesis and characterization of flower shaped zinc oxide nanostructures. <i>Materials Letters</i> , 2009, 63, 242-245.	2.7	132
39	Retrosynthesis of Nacre via Amorphous Precursor Particles. <i>Chemistry of Materials</i> , 2005, 17, 6514-6516.	7.1	129
40	Microwave-assisted synthesis and characterization of tin oxide nanoparticles. <i>Materials Letters</i> , 2008, 62, 3437-3440.	2.7	125
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.	8.0	125
42	Synthesis of Yttria-Based Crystalline and Lamellar Nanostructures and their Formation Mechanism. <i>Small</i> , 2004, 1, 112-121.	11.2	123
43	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.	7.1	120
44	Divanadium Pentoxide Nanorods. <i>Advanced Materials</i> , 2003, 15, 329-331.	24.3	119
45	Solvent Dependent Shape and Magnetic Properties of Doped ZnO Nanostructures. <i>Advanced Functional Materials</i> , 2007, 17, 3159-3169.	16.5	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	Elemental Sulfur and Molybdenum Disulfide Composites for Li-ion Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13437-13448.	8.3	110
48	Triangular CdS Nanocrystals: Synthesis, Characterization, and Stability. <i>Langmuir</i> , 2001, 17, 7982-7987.	3.7	109
49	Vanadium Oxide Sensing Layer Grown on Carbon Nanotubes by a New Atomic Layer Deposition Process. <i>Nano Letters</i> , 2008, 8, 4201-4204.	9.5	104
50	Synthesis of Stable Aragonite Superstructures by a Biomimetic Crystallization Pathway. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6004-6009.	14.8	102
51	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.	10.5	100
52	Cecal Infusion of Butyrate Increases Intestinal Cell Proliferation in Piglets. <i>Journal of Nutrition</i> , 2007, 137, 916-922.	2.7	99
53	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. <i>Coordination Chemistry Reviews</i> , 2013, 257, 3232-3253.	19.6	98
54	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4293-4305.	16.5	98

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55	Controlled Assembly of Preformed Ceria Nanocrystals into Highly Ordered 3D Nanostructures. <i>Small</i> , 2005, 1, 313-316.	11.2	97
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.	7.1	94
57	Influence of phase transformations on the mechanical properties of high-strength austenitic Fe-Mn-Cr steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 307-317.	2.2	92
58	Production of biomass-derived furanic ethers and levulinate esters using heterogeneous acid catalysts. <i>Green Chemistry</i> , 2013, 15, 3367.	9.4	92
59	Thymosin β 4 represents a potential potent single-molecule-based therapy for cystic fibrosis. <i>Nature Medicine</i> , 2017, 23, 590-600.	30.1	92
60	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.	8.0	91
61	Sulfonated Graphene Oxide as Effective Catalyst for Conversion of 5-(Hydroxymethyl)furfural into Biofuels. <i>ChemSusChem</i> , 2014, 7, 804-812.	7.5	91
62	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.	3.3	88
63	High-performance yarn electrode materials enhanced by surface modifications of cotton fibers with graphene sheets and polyaniline nanowire arrays for all-solid-state supercapacitors. <i>Electrochimica Acta</i> , 2018, 270, 205-214.	5.4	86
64	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.	4.8	85
65	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
66	"Let's Move It" a school-based multilevel intervention to increase physical activity and reduce sedentary behaviour among older adolescents in vocational secondary schools: a study protocol for a cluster-randomised trial. <i>BMC Public Health</i> , 2016, 16, 451.	3.0	83
67	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.	8.0	82
68	Polyacrylonitrile-Coordinated Perovskite Solar Cell with Open-Circuit Voltage Exceeding 1.23 V. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	14.8	81
69	Evaporation-Induced Self-Assembly (EISA) at Its Limit: Ultrathin, Crystalline Patterns by Templating of Micellar Monolayers. <i>Advanced Materials</i> , 2006, 18, 2260-2263.	24.3	80
70	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.	16.5	77
71	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.	2.7	75
72	Lanthanide-Based Lamellar Nanohybrids: Synthesis, Structural Characterization, and Optical Properties. <i>Chemistry of Materials</i> , 2006, 18, 4493-4499.	7.1	75

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73	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	75
74	Tuning the sensitivity of lanthanide-activated NIR nanothermometers in the biological windows. Nanoscale, 2018, 10, 2568-2576.	5.8	75
75	A highly sensitive oxygen sensor operating at room temperature based on platinum-doped In ₂ O ₃ nanocrystals. Chemical Communications, 2005, , 6032.	4.2	73
76	Search for new phenomena in final states with large jet multiplicities and missing transverse momentum at $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS experiment. Journal of High Energy Physics, 2013, 2013, 1.	4.8	72
77	Boron-Based Catalysts for C-C Bond Formation Reactions. Chemistry - an Asian Journal, 2018, 13, 1279-1292.	3.5	72
78	Colloidal polymers from inorganic nanoparticle monomers. Progress in Polymer Science, 2015, 40, 85-120.	26.2	69
79	Structural, optical and electrical characterization of antimony-substituted tin oxide nanoparticles. Journal of Physics and Chemistry of Solids, 2009, 70, 993-999.	4.1	68
80	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. Journal of Materials Chemistry B, 2017, 5, 5499-5505.	5.9	68
81	Directing the Deposition of Ferromagnetic Cobalt onto Pt-Tipped CdSe@CdS Nanorods: Synthetic and Mechanistic Insights. ACS Nano, 2012, 6, 8632-8645.	15.3	67
82	Niobium pentoxide nanomaterials with distorted structures as efficient acid catalysts. Communications Chemistry, 2019, 2, .	4.9	66
83	Synthesis of Nickel Phosphide Electrocatalysts from Hybrid Metal Phosphonates. ACS Applied Materials & Interfaces, 2017, 9, 14013-14022.	8.3	65
84	Photoluminescence, cytotoxicity and in vitro imaging of hexagonal terbium phosphatenanoparticles doped with europium. Nanoscale, 2011, 3, 1263-1269.	5.8	62
85	Mesoporous carbon-silica solid acid catalysts for producing useful bio-products within the sugar-platform of biorefineries. Green Chemistry, 2014, 16, 4292-4305.	9.4	62
86	A General Soft-Chemistry Route to Perovskites and Related Materials: Synthesis of BaTiO ₃ , BaZrO ₃ , and LiNbO ₃ Nanoparticles. Angewandte Chemie, 2004, 116, 2320-2323.	2.1	60
87	Missing Piece of the Mechanism of the Turkevich Method: The Critical Role of Citrate Protonation. Chemistry of Materials, 2016, 28, 4072-4081.	7.1	59
88	Sea-Sponge-like Structure of Nano-Fe ₃ O ₄ on Skeleton-C with Long Cycle Life under High Rate for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 19656-19663.	8.3	58
89	Insights into Charge Transfer at an Atomically Precise Nanocluster/Semiconductor Interface. Angewandte Chemie - International Edition, 2020, 59, 7748-7754.	14.8	58
90	Toward Optimized Radial Modulation of the Space-Charge Region in One-Dimensional SnO ₂ -NiO Core-Shell Nanowires for Hydrogen Sensing. ACS Applied Materials & Interfaces, 2020, 12, 4594-4606.	8.3	58

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91	Optical properties of silver nanocrystals self-organized in a two-dimensional superlattice: Substrate effect. <i>Physical Review B</i> , 2002, 66, .	3.3	57
92	Transition Metal-Doped ZrO ₂ and HfO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12048-12058.	3.3	57
93	Amperometric Sensing of H ₂ O ₂ using Pt@TiO ₂ /Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014, 1, 617-624.	3.5	56
94	Hybrid Organic-Inorganic Transition-Metal Phosphonates as Precursors for Water Oxidation Electrocatalysts. <i>Advanced Functional Materials</i> , 2017, 27, 1703158.	16.5	56
95	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.	3.7	55
96	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.	2.9	54
97	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.	22.2	54
98	Nonaqueous synthesis, assembly and formation mechanisms of metal oxide nanocrystals. <i>International Journal of Nanotechnology</i> , 2007, 4, 263.	0.3	52
99	Non-Aqueous Routes to Metal Oxide Thin Films by Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3592-3595.	14.8	52
100	Olfactory Metacognition. <i>Chemical Senses</i> , 2003, 28, 651-658.	2.1	51
101	Reliable palladium nanoparticle syntheses in aqueous solution: the importance of understanding precursor chemistry and growth mechanism. <i>CrystEngComm</i> , 2015, 17, 1865-1870.	2.4	51
102	Enhancing the Lithium Storage Performance of Graphene/SnO ₂ Nanorods by a Carbon-Riveting Strategy. <i>ChemSusChem</i> , 2018, 11, 1321-1327.	7.5	51
103	Surfactant-Mediated Generation of Iso-Oriented Dense and Mesoporous Crystalline Metal-Oxide Layers. <i>Advanced Materials</i> , 2006, 18, 1827-1831.	24.3	50
104	Manganese-Doped Zirconia Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 863-868.	2.2	49
105	One-Step Synthesis and Self-Assembly of Metal Oxide Nanoparticles into 3D Superlattices. <i>ACS Nano</i> , 2012, 6, 4382-4391.	15.3	48
106	Polyphenol-rich grape pomace extracts protect against dextran sulfate sodium-induced colitis in rats. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 1260-1268.	3.6	48
107	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.	3.5	48
108	Towards enhanced performances in gas sensing: SnO ₂ based nanocrystalline oxides application. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 564-571.	8.0	47

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109	Microwave-assisted fluorolytic sol-gel route to iron fluoride nanoparticles for Li-Ion batteries. <i>Chemical Communications</i> , 2014, 50, 460-462.	4.2	47
110	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	46
111	Labeling and monitoring the distribution of anchoring sites on functionalized CNTs by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2012, 22, 7323.	6.7	45
112	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. <i>Advanced Energy Materials</i> , 2019, 9, 1900328.	22.2	45
113	Selective Dissolution of Surface Nickel Close to Platinum in PtNi Nanocatalyst toward Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2016, 28, 1879-1887.	7.1	44
114	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. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	43
115	One-Step Synthesis and Optical Properties of Benzoate- and Biphenolate-Capped ZrO ₂ Nanoparticles. <i>Advanced Functional Materials</i> , 2012, 22, 4275-4283.	16.5	42
116	The -benzyl alcohol route: An elegant approach towards doped and multimetal oxide nanocrystals. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 323-329.	2.3	41
117	Colloidal Polymers from Dipolar Assembly of Cobalt-Tipped CdSe@CdS Nanorods. <i>ACS Nano</i> , 2014, 8, 3272-3284.	15.3	41
118	Atomic Layer Deposition to Materials for Gas Sensing Applications. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600335.	4.1	41
119	Transition metal sulfides meet electrospinning: versatile synthesis, distinct properties and prospective applications. <i>Nanoscale</i> , 2021, 13, 9112-9146.	5.8	41
120	Non-aqueous sol-gel routes applied to atomic layer deposition of oxides. <i>Journal of Materials Chemistry</i> , 2009, 19, 454-462.	6.7	40
121	Gas sensing properties and p-type response of ALD TiO ₂ coated carbon nanotubes. <i>Nanotechnology</i> , 2015, 26, 024004.	2.7	40
122	Electrochemical Water Oxidation of Ultrathin Cobalt Oxide-Based Catalyst Supported onto Aligned ZnO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3226-3232.	8.3	40
123	ALD SnO ₂ protective decoration enhances the durability of a Pt based electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 969-975.	10.5	40
124	Measurement of the $\overline{\sigma_{t t \hat{t}^-}}$ production cross section using events in the $e \mu e \hat{1}/4$ final state in pp collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s = 13$ TeV. <i>European Physical Journal C</i> , 2017, 77, 172.	4.0	40
125	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, 12465-12474.	3.9	39
126	Optical Response of Ultrafine Spherical Silver Nanoparticles Arranged in Hexagonal Planar Arrays Studied by the DDA Method. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4094-4099.	2.6	38

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127	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.	2.7	38
128	Atomic Layer Deposition of Metal Oxides and Chalcogenides for High Performance Transistors. <i>Advanced Science</i> , 2022, 9, .	12.4	38
129	Photoluminescent Rare-Earth Based Biphenolate Lamellar Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2539-2544.	3.3	37
130	Novel Synthesis of Anhydrous and Hydroxylated CuF ₂ Nanoparticles and Their Potential for Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 7177-7187.	3.9	37
131	Nonaqueous Synthesis of Nanocrystalline Semiconducting Metal Oxides for Gas Sensing. <i>Angewandte Chemie</i> , 2004, 116, 4445-4449.	2.1	36
132	Tensidfreie nichtwässrige Synthese von Metalloxid-Nanostrukturen. <i>Angewandte Chemie</i> , 2008, 120, 5372-5385.	2.1	36
133	Reversible Sodium and Lithium Insertion in Iron Fluoride Perovskites. <i>Advanced Functional Materials</i> , 2018, 28, 1802057.	16.5	36
134	Estimation of Solid-liquid Interfacial Energy from Gibbs-Thomson Effect: A Molecular Dynamics Study. <i>ISJ International</i> , 2011, 51, 1664-1667.	1.5	35
135	Nanopatterning by Area-Selective Atomic Layer Deposition. , 2011, , 193-225.		35
136	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.	7.1	35
137	Highly Dispersible Hexagonal Carbon-MoS ₂ -Carbon Nanoplates with Hollow Sandwich Structures for Supercapacitors. <i>Chemistry - A European Journal</i> , 2019, 25, 4757-4766.	3.9	35
138	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.	16.5	34
139	Unifying Concepts in Room-Temperature CO Oxidation with Gold Catalysts. <i>ACS Catalysis</i> , 2017, 7, 8247-8254.	11.7	33
140	Geometric and electronic structure of V ₂ O ₅ : Comparison between V ₂ O ₅ and V ₂ O ₅ . <i>Physical Review B</i> , 2004, 69, .	3.3	32
141	Optical Properties of Lanthanide-Doped Lamellar Nanohybrids. <i>ChemPhysChem</i> , 2006, 7, 2215-2222.	2.3	31
142	Copper Thiophosphate (Cu ₃ PS ₄) as Electrode for Sodium-Ion Batteries with Ether Electrolyte. <i>Advanced Functional Materials</i> , 2020, 30, 1910583.	16.5	31
143	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.	14.6	31
144	MPPT techniques for photovoltaic system under uniform insolation and partial shading conditions. , 2012, , .		30

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