Andreu Cabot

List of Publications by Year
in descending order

216 papers	14,248 citations	16450 64 h-index	23530 111 g-index
222 all docs	222 docs citations	222 times ranked	17806 citing authors

#	Article	IF	Citations
1	Room temperature aqueous-based synthesis of copper-doped lead sulfide nanoparticles for thermoelectric application. Chemical Engineering Journal, 2022, 433, 133837.	12.7	8
2	Activating the lattice oxygen oxidation mechanism in amorphous molybdenum cobalt oxide nanosheets for water oxidation. Journal of Materials Chemistry A, 2022, 10, 3659-3666.	10.3	24
3	A High Conductivity 1D Ï€â€“d Conjugated Metalâ€“Organic Framework with Efficient Polysulfide Trappingâ€Diffusionâ€Catalysis in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2108835.	21.0	86
4	Robust Lithiumâ€“Sulfur Batteries Enabled by Highly Conductive WSe₂â€Based Superlattices with Tunable Interlayer Space. Advanced Functional Materials, 2022, 32, .	14.9	51
5	Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodineâ€Doped Bismuth Selenide Nanosheets in Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	14.9	49
6	Patterning with Aligned Electrospun Nanofibers by Electrostatic Deflection of Fast Jets. Advanced Engineering Materials, 2022, 24, .	3.5	6
7	Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. Chemical Engineering Journal, 2022, 440, 135817.	12.7	19
8	Controlled oxygen doping in highly dispersed Ni-loaded g-C3N4 nanotubes for efficient photocatalytic H2O2 production. Chemical Engineering Journal, 2022, 441, 135999.	12.7	88
9	Branch-Regulated Palladiumâ€“Antimony Nanoparticles Boost Ethanol Electro-oxidation to Acetate. Inorganic Chemistry, 2022, 61, 6337-6346.	4.0	10
10	Pd2Ga nanorods as highly active bifunctional catalysts for electrosynthesis of acetic acid coupled with hydrogen production. Chemical Engineering Journal, 2022, 446, 136878.	12.7	11
11	2D/2D Heterojunction of TiO2 Nanoparticles and Ultrathin G-C3N4 Nanosheets for Efficient Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 1557.	4.1	6
12	Molecular engineering to introduce carbonyl between nickel salophen active sites to enhance electrochemical CO2 reduction to methanol. Applied Catalysis B: Environmental, 2022, 314, 121451.	20.2	32
13	Subsuming the Metal Seed to Transform Binary Metal Chalcogenide Nanocrystals into Multinary Compositions. ACS Nano, 2022, 16, 8917-8927.	14.6	8
14	Entropy-stabilized metal oxide nanoparticles supported on reduced graphene oxide as a highly active heterogeneous catalyst for selective and solvent-free oxidation of toluene: a combined experimental and numerical investigation. Journal of Materials Chemistry A, 2022, 10, 14488-14500.	10.3	12
15	Phase Engineering of Defective Copper Selenide toward Robust Lithiumâ€“Sulfur Batteries. ACS Nano, 2022, 16, 11102-11114.	14.6	50
16	Surface strain-enhanced MoS2 as a high-performance cathode catalyst for lithiumâ€“sulfur batteries. EScience, 2022, 2, 405-415.	41.6	70
17	Highly Sensitive Selfâ€Powered H₂ Sensor Based on Nanostructured Thermoelectric Silicon Fabrics. Advanced Materials Technologies, 2021, 6, .	5.8	9
18	Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003507.	19.5	91

#	Article	IF	Citations
19	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO₃/TiO₂ Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 449-457.	8.0	37
20	Low-Cost Control and Measurement Circuit for the Implementation of Single Element Heat Dissipation Soil Water Matric Potential Sensor Based on a SnSe2 Thermosensitive Resistor. Sensors, 2021, 21, 1490.	3.8	3
21	2Dâ€Organic Layered Materials: Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€"Sulfur Batteries (Adv. Energy Mater. 5/2021). Advanced Energy Materials, 2021, 11, 2170022.	19.5	3
22	Synthesis, Bottom up Assembly and Thermoelectric Properties of Sb-Doped PbS Nanocrystal Building Blocks. Materials, 2021, 14, 853.	2.9	5
23	Electrocatalysis: Nickel Iron Diselenide for Highly Efficient and Selective Electrocatalytic Conversion of Methanol to Formate (Small 6/2021). Small, 2021, 17, 2170023.	10.0	3
24	Highâ€Performance Microâ€Radioisotope Thermoelectric Generator with Largeâ€Scale Integration of Multilayer Annular Arrays through Screen Printing and Stacking Coupling. Energy Technology, 2021, 9, 2001047.	3.8	5
25	Influence of Colloidal Au on the Growth of ZnO Nanostructures. Nanomaterials, 2021, 11, 870.	4.1	9
26	Hierarchical Nanoreactor with Multiple Adsorption and Catalytic Sites for Robust Lithiumâ€"Sulfur Batteries. ACS Nano, 2021, 15, 6849-6860.	14.6	70
27	Phase formation and thermoelectric properties of Zn1+Sb binary system. Transactions of Nonferrous Metals Society of China, 2021, 31, 753-763.	4.2	4
28	Effect of the Annealing Atmosphere on Crystal Phase and Thermoelectric Properties of Copper Sulfide. ACS Nano, 2021, 15, 4967-4978.	14.6	39
29	Photodehydrogenation of Ethanol over Cu2O/TiO2 Heterostructures. Nanomaterials, 2021, 11, 1399.	4.1	11
30	Tubular CoFeP@CN as a Mottâ€"Schottky Catalyst with Multiple Adsorption Sites for Robust Lithiumâˆ'Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	19.5	125
31	Architecturing 1Dâ€2Dâ€3D Multidimensional Coupled CsPbI₂Br Perovskites toward Highly Effective and Stable Solar Cells. Small, 2021, 17, e2100888.	10.0	17
32	Does the pathway for development of next generation nuclear materials straightly go through high-entropy materials?. International Journal of Refractory Metals and Hard Materials, 2021, 97, 105504.	3.8	25
33	Enhanced Thermoelectric Performance of n-Type Bi2Se3 Nanosheets through Sn Doping. Nanomaterials, 2021, 11, 1827.	4.1	23
34	Doping-mediated stabilization of copper vacancies to promote thermoelectric properties of Cu2âˆ'xS. Nano Energy, 2021, 85, 105991.	16.0	26
35	NbSe₂ Meets C₂N: A 2Dâ€2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultraâ€Longâ€Life Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2101250.	19.5	89
36	Ultrafast electrohydrodynamic 3D printing with in situ jet speed monitoring. Materials and Design, 2021, 206, 109791.	7.0	13

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37	Influence of copper telluride nanodomains on the transport properties of n-type bismuth telluride. Chemical Engineering Journal, 2021, 418, 129374.	12.7	18
38	Molecular Engineering to Tune the Ligand Environment of Atomically Dispersed Nickel for Efficient Alcohol Electrochemical Oxidation. Advanced Functional Materials, 2021, 31, 2106349.	14.9	27
39	A Finite Element Investigation into the Cohesive Properties of Glass-Fiber-Reinforced Polymers with Nanostructured Interphases. Nanomaterials, 2021, 11, 2487.	4.1	3
40	Chromiumâ€Based Metalâ€“Organic Framework as Aâ€Site Cation in CsPbI₂Br Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2106233.	14.9	36
41	Nickel Iron Diselenide for Highly Efficient and Selective Electrocatalytic Conversion of Methanol to Formate. Small, 2021, 17, e2006623.	10.0	29
42	Hierarchical CoP Nanostructures on Nickel Foam as Efficient Bifunctional Catalysts for Water Splitting. ChemSusChem, 2021, 14, 1094-1102.	6.8	20
43	PbSâ€“Pbâ€“Cu<i>_x</i>S Composites for Thermoelectric Application. ACS Applied Materials & Interfaces, 2021, 13, 51373-51382.	8.0	9
44	Performance of oil sorbents based on reduced graphene oxideâ€“silica composite aerogels. Journal of Environmental Chemical Engineering, 2020, 8, 103632.	6.7	37
45	Influence of the Ligand Stripping on the Transport Properties of Nanoparticle-Based PbSe Nanomaterials. ACS Applied Energy Materials, 2020, 3, 2120-2129.	5.1	11
46	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 4414-4422.	8.0	46
47	Hydrogen photogeneration using ternary CuGaS2-TiO2-Pt nanocomposites. International Journal of Hydrogen Energy, 2020, 45, 1510-1520.	7.1	24
48	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 15492-15504.	14.6	114
49	Phosphorous incorporation in Pd2Sn alloys for electrocatalytic ethanol oxidation. Nano Energy, 2020, 77, 105116.	16.0	48
50	Selective Methanolâ€toâ€Formate Electrocatalytic Conversion on Branched Nickel Carbide. Angewandte Chemie - International Edition, 2020, 59, 20826-20830.	13.8	83
51	Selective Methanolâ€toâ€Formate Electrocatalytic Conversion on Branched Nickel Carbide. Angewandte Chemie, 2020, 132, 21012-21016.	2.0	24
52	Bismuth tellurideâ€“copper telluride nanocomposites from heterostructured building blocks. Journal of Materials Chemistry C, 2020, 8, 14092-14099.	5.5	15
53	SnS2/g-C3N4/graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. Electrochimica Acta, 2020, 349, 136369.	5.2	29
54	Improving Mechanical Properties of Glass Fiber Reinforced Polymers through Silica-Based Surface Nanoengineering. ACS Applied Polymer Materials, 2020, 2, 2667-2675.	4.4	12

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55	Optimization of the TEGs Configuration (Series/Parallel) in Energy Harvesting Systems with Low-Voltage Thermoelectric Generators Connected to Ultra-Low Voltage DCâ€“DC Converters. Energies, 2020, 13, 2297.	3.1	15
56	Self-Induced Strain in 2D Chalcogenide Nanocrystals with Enhanced Photoelectrochemical Responsivity. Chemistry of Materials, 2020, 32, 2774-2781.	6.7	7
57	Monodispersed Nickel Phosphide Nanocrystals in Situ Grown on Reduced Graphene Oxide with Controllable Size and Composition as a Counter Electrode for Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 5920-5926.	6.7	27
58	Low-cost tangerine peel waste mediated production of Titanium Dioxide Nanocrystals: Synthesis and characterization. Environmental Nanotechnology, Monitoring and Management, 2020, 13, 100285.	2.9	14
59	Stability of Pd₃Pb Nanocubes during Electrocatalytic Ethanol Oxidation. Chemistry of Materials, 2020, 32, 2044-2052.	6.7	62
60	A SnS₂ Molecular Precursor for Conformal Nanostructured Coatings. Chemistry of Materials, 2020, 32, 2097-2106.	6.7	9
61	Ultrafast 3D printing with submicrometer features using electrostatic jet deflection. Nature Communications, 2020, 11, 753.	12.8	114
62	Advanced Raman spectroscopy of Cs2AgBiBr6 double perovskites and identification of Cs3Bi2Br9 secondary phases. Scripta Materialia, 2020, 184, 24-29.	5.2	46
63	Tin Selenide Molecular Precursor for the Solution Processing of Thermoelectric Materials and Devices. ACS Applied Materials & Interfaces, 2020, 12, 27104-27111.	8.0	15
64	Upscaling high activity oxygen evolution catalysts based on CoFe2O4 nanoparticles supported on nickel foam for power-to-gas electrochemical conversion with energy efficiencies above 80%. Applied Catalysis B: Environmental, 2019, 259, 118055.	20.2	35
65	In Situ Electrochemical Oxidation of Cu₂S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 7732-7743.	6.7	131
66	Geâ€Doped ZnSb/Î²â€Zn 4 Sb 3 Nanocomposites with High Thermoelectric Performance. Advanced Materials Interfaces, 2019, 6, 1900467.	3.7	19
67	Porous NiTiO₃/TiO₂nanostructures for photocatatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 17053-17059.	10.3	33
68	A low temperature solid state reaction to produce hollow MnxFe3-xO4 nanoparticles as anode for lithium-ion batteries. Nano Energy, 2019, 66, 104199.	16.0	21
69	Superior methanol electrooxidation performance of (110)-faceted nickel polyhedral nanocrystals. Journal of Materials Chemistry A, 2019, 7, 22036-22043.	10.3	38
70	Solution-Processed Ultrathin SnS₂â€“Pt Nanoplates for Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 6918-6926.	8.0	57
71	Coâ€“Sn Nanocrystalline Solid Solutions as Anode Materials in Lithiumâ€Ion Batteries with High Pseudocapacitive Contribution. ChemSusChem, 2019, 12, 1451-1458.	6.8	38
72	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchinâ€Like Metallic NiCo₂Se₄ for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2019, 29, 1903842.	14.9	153

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73	Chromium phosphide CrP as highly active and stable electrocatalysts for oxygen electroreduction in alkaline media. Applied Catalysis B: Environmental, 2019, 256, 117846.	20.2	20
74	Tuning Transport Properties in Thermoelectric Nanocomposites through Inorganic Ligands and Heterostructured Building Blocks. ACS Nano, 2019, 13, 6572-6580.	14.6	27
75	Ligand-Mediated Band Engineering in Bottom-Up Assembled SnTe Nanocomposites for Thermoelectric Energy Conversion. Journal of the American Chemical Society, 2019, 141, 8025-8029.	13.7	47
76	Autonomous Soil Water Content Sensors Based on Bipolar Transistors Encapsulated in Porous Ceramic Blocks. Applied Sciences (Switzerland), 2019, 9, 1211.	2.5	2
77	Compositionally tuned NixSn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. Electrochimica Acta, 2019, 304, 246-254.	5.2	51
78	Crystallographically textured SnSe nanomaterials produced from the liquid phase sintering of nanocrystals. Dalton Transactions, 2019, 48, 3641-3647.	3.3	16
79	Critical role of nanoinclusions in silver selenide nanocomposites as a promising room temperature thermoelectric material. Journal of Materials Chemistry C, 2019, 7, 2646-2652.	5.5	47
80	Mechanistic study of energy dependent scattering and hole-phonon interaction at hybrid polymer composite interfaces for optimized thermoelectric performance. Composites Part B: Engineering, 2019, 164, 54-60.	12.0	24
81	Substantial role of doping in the thermoelectric and hardness properties of nanostructured bornite, Cu5FeS4. Journal of Alloys and Compounds, 2019, 773, 1064-1074.	5.5	21
82	Graphene-supported palladium phosphide PdP2 nanocrystals for ethanol electrooxidation. Applied Catalysis B: Environmental, 2019, 242, 258-266.	20.2	76
83	Metal Oxide Aerogels with Controlled Crystallinity and Faceting from the Epoxide-Driven Cross-Linking of Colloidal Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 16041-16048.	8.0	11
84	NiSn bimetallic nanoparticles as stable electrocatalysts for methanol oxidation reaction. Applied Catalysis B: Environmental, 2018, 234, 10-18.	20.2	142
85	Thermoelectric properties of nanostructured bornite Cu5-xCoxFeS4 synthesized by high energy ball milling. Journal of Alloys and Compounds, 2018, 750, 1-7.	5.5	15
86	Synthesis of bornite Cu5FeS4 nanoparticles via high energy ball milling: Photocatalytic and thermoelectric properties. Powder Technology, 2018, 333, 160-166.	4.2	28
87	Triphenyl Phosphite as the Phosphorus Source for the Scalable and Cost-Effective Production of Transition Metal Phosphides. Chemistry of Materials, 2018, 30, 1799-1807.	6.7	65
88	Crystallographically Textured Nanomaterials Produced from the Liquid Phase Sintering of Bi_{<i>x</i>}Sb_{2â€“<i>x</i>}Te₃ Nanocrystal Building Blocks. Nano Letters, 2018, 18, 2557-2563.	9.1	89
89	Colloidal Niâ€“Coâ€“Sn nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. Journal of Materials Chemistry A, 2018, 6, 22915-22924.	10.3	85
90	Evaluation of the Thermoelectric Energy Harvesting Potential at Different Latitudes Using Solar Flat Panels Systems with Buried Heat Sink. Applied Sciences (Switzerland), 2018, 8, 2641.	2.5	20

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91	Tin Diselenide Molecular Precursor for Solutionâ€Processable Thermoelectric Materials. Angewandte Chemie, 2018, 130, 17309-17314.	2.0	9
92	Large-area and adaptable electrospun silicon-based thermoelectric nanomaterials with high energy conversion efficiencies. Nature Communications, 2018, 9, 4759.	12.8	62
93	Common Aspects Influencing the Translocation of SERS to Biomedicine. Current Medicinal Chemistry, 2018, 25, 4638-4652.	2.4	18
94	Tin Diselenide Molecular Precursor for Solutionâ€Processable Thermoelectric Materials. Angewandte Chemie - International Edition, 2018, 57, 17063-17068.	13.8	23
95	Enhanced Heteroâ€Junction Quality and Performance of Kesterite Solar Cells by Aluminum Hydroxide Nanolayers and Efficiency Limitation Revealed by Atomicâ€resolution Scanning Transmission Electron Microscopy. Solar Rrl, 2018, 3, 1800279.	5.8	6
96	Thermoelectric Properties of Doped-Cu₃SbSe₄ Compounds: A First-Principles Insight. Inorganic Chemistry, 2018, 57, 7321-7333.	4.0	36
97	Surface Chemistry and Nano-/Microstructure Engineering on Photocatalytic In2S3 Nanocrystals. Langmuir, 2018, 34, 6470-6479.	3.5	17
98	SnP nanocrystals as anode materials for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 10958-10966.	10.3	56
99	Topological doping effects in 2D chalcogenide thermoelectrics. 2D Materials, 2018, 5, 045008.	4.4	5
100	Doping and Surface Effects of CuFeS₂ Nanocrystals Used in Thermoelectric Nanocomposites. ChemNanoMat, 2018, 4, 982-991.	2.8	26
101	High Thermoelectric Performance in Crystallographically Textured n-Type Bi₂Te_{3â€“<i>x</i>}Se_{<i>x</i>} Produced from Asymmetric Colloidal Nanocrystals. ACS Nano, 2018, 12, 7174-7184.	14.6	114
102	CuGaS2 and CuGaS2â€“ZnS Porous Layers from Solution-Processed Nanocrystals. Nanomaterials, 2018, 8, 220.	4.1	7
103	Electrostatic-Driven Gelation of Colloidal Nanocrystals. Langmuir, 2018, 34, 9167-9174.	3.5	12
104	Colloidal Ni_{2â^'x}Co_xP nanocrystals for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 11453-11462.	10.3	57
105	Colloidal Synthesis of CsX Nanocrystals (X = Cl, Br, I). Nanomaterials, 2018, 8, 506.	4.1	5
106	Growth of Auâ€“Pd₂Sn Nanorods via Galvanic Replacement and Their Catalytic Performance on Hydrogenation and Sonogashira Coupling Reactions. Langmuir, 2018, 34, 10634-10643.	3.5	13
107	Noble metal distribution in mesoporous silica as a selective active filter for semiconductor gas sensors. , 2018, , 433-436.		0
108	Compound Copper Chalcogenide Nanocrystals. Chemical Reviews, 2017, 117, 5865-6109.	47.7	670

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109	Oxidation at the atomic scale. Science, 2017, 356, 245-245.	12.6	3
110	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. Chemical Society Reviews, 2017, 46, 3510-3528.	38.1	184
111	Tuning Branching in Ceria Nanocrystals. Chemistry of Materials, 2017, 29, 4418-4424.	6.7	19
112	Solution-based synthesis and processing of Sn- and Bi-doped Cu₃SbSe₄nanocrystals, nanomaterials and ring-shaped thermoelectric generators. Journal of Materials Chemistry A, 2017, 5, 2592-2602.	10.3	73
113	High Catalytic Activity of W₁₈ O₄₉ Nanowire-Reduced Graphite Oxide Composite Counter Electrode for Dye-Sensitized Solar Cells. ChemistrySelect, 2017, 2, 8927-8935.	1.5	12
114	Subcellular Optical pH Nanoscale Sensor. ChemistrySelect, 2017, 2, 8115-8121.	1.5	5
115	Measurement of the electric energy storage capacity in solar thermoelectric generatorsâ€™ energy harvesting modules. International Journal of Distributed Sensor Networks, 2017, 13, 155014771668542.	2.2	4
116	Tuning <i>p</i>-Type Transport in Bottom-Up-Engineered Nanocrystalline Pb Chalcogenides Using Alkali Metal Chalcogenides as Capping Ligands. Chemistry of Materials, 2017, 29, 7093-7097.	6.7	27
117	Atomistic modelling and high resolution electron microscopy simulations of CeO2nanoparticles. Applied Physics Letters, 2017, 111, 223107.	3.3	0
118	A Self-Powered and Autonomous Fringing Field Capacitive Sensor Integrated into a Micro Sprinkler Spinner to Measure Soil Water Content. Sensors, 2017, 17, 575.	3.8	36
119	Experimental analysis of an automotive thermoelectric generator under different engine operating regimes. Renewable Energy and Power Quality Journal, 2017, 1, 619-623.	0.2	1
120	Experiments and Simulations of an Automotive Exhaust Thermoelectric System. Renewable Energy and Power Quality Journal, 2017, 1, 614-618.	0.2	0
121	Thermoelectric properties of semiconductor-metal composites produced by particle blending. APL Materials, 2016, 4, .	5.1	50
122	Colloidal AgSbSe₂ nanocrystals: surface analysis, electronic doping and processing into thermoelectric nanomaterials. Journal of Materials Chemistry C, 2016, 4, 4756-4762.	5.5	27
123	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Agâ€“Auâ€“Se in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. Chemistry of Materials, 2016, 28, 7017-7028.	6.7	26
124	Fe₃O₄@NiFe_{<i>x</i>}O_{<i>y</i>} Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 29461-29469.	8.0	34
125	Pd₂Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. Journal of Materials Chemistry A, 2016, 4, 16706-16713.	10.3	65
126	Phosphonic acids aid composition adjustment in the synthesis of Cu2+x Zn1âˆ’x SnSe4âˆ’y nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	5

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127	Advanced Raman Spectroscopy of Methylammonium Lead Iodide: Development of a Non-destructive Characterisation Methodology. Scientific Reports, 2016, 6, 35973.	3.3	103
128	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. ACS Applied Materials & Interfaces, 2016, 8, 19579-19586.	8.0	295
129	Cu₂ZnSnS₄ Nanocrystals as Highly Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2016, 120, 24265-24270.	3.1	17
130	High-performance thermoelectric nanocomposites from nanocrystal building blocks. Nature Communications, 2016, 7, 10766.	12.8	224
131	Mn₃O₄@CoMn₂O₄â€“Co_{<i>x</i>}O_{<i>y</i>}Nanopartic Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2016, 8, 17435-17444.	8.0	72
132	Autonomous soil moisture sensor based on nanostructured thermosensitive resistors powered by an integrated thermoelectric generator. Sensors and Actuators A: Physical, 2016, 239, 1-7.	4.1	28
133	Scalable Heating-Up Synthesis of Monodisperse Cu₂ZnSnS₄ Nanocrystals. Chemistry of Materials, 2016, 28, 720-726.	6.7	43
134	Coâ€“Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. Langmuir, 2016, 32, 2267-2276.	3.5	37
135	NH3 sensing with self-assembled ZnO-nanowire Î¼HP sensors in isothermal and temperature-pulsed mode. Sensors and Actuators B: Chemical, 2016, 226, 110-117.	7.8	34
136	Raman scattering quantitative analysis of the anion chemical composition in kesterite Cu2ZnSn(SxSe1â^'x)4 solid solutions. Journal of Alloys and Compounds, 2015, 628, 464-470.	5.5	69
137	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	14.6	1,005
138	Influence of substrate temperature on the structural and optical properties of crystalline ZnO films obtained by pulsed spray pyrolysis. Surface and Interface Analysis, 2015, 47, 601-606.	1.8	33
139	Size and Aspect Ratio Control of Pd₂Sn Nanorods and Their Water Denitration Properties. Langmuir, 2015, 31, 3952-3957.	3.5	29
140	Electron Doping in Bottom-Up Engineered Thermoelectric Nanomaterials through HCl-Mediated Ligand Displacement. Journal of the American Chemical Society, 2015, 137, 4046-4049.	13.7	98
141	Growth Time Effect on the Structural and Sub-Structural Properties of Chemically-Deposited ZnO Films. Advanced Materials Research, 2015, 1117, 168-178.	0.3	1
142	Structure, Synthesis, and Applications of TiO₂ Nanobelts. Advanced Materials, 2015, 27, 2557-2582.	21.0	287
143	Autonomous Multisensor System Powered by a Solar Thermoelectric Energy Harvester With Ultralow-Power Management Circuit. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2918-2925.	4.7	42
144	Cu₂ZnSnS₄â€“PtM (M = Co, Ni) Nanoheterostructures for Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2015, 119, 21882-21888.	3.1	50

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145	Cu₂ZnSnS₄â€“Ag₂S Nanoscale pâ€“n Heterostructures as Sensitizers for Photoelectrochemical Water Splitting. Langmuir, 2015, 31, 10555-10561.	3.5	55
146	Spray-deposited CuIn_{1âˆ'<i>x</i>} Ga_{<i>x</i>} Se₂ solar cell absorbers: Influence of spray deposition parameters and crystallization promoters. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 67-71.	1.8	7
147	Colloidal synthesis and functional properties of quaternary Cu-based semiconductors: Cu2HgGeSe4. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	7
148	Polarity-Driven Polytypic Branching in Cu-Based Quaternary Chalcogenide Nanostructures. ACS Nano, 2014, 8, 2290-2301.	14.6	47
149	ZnS grain size effects on near-resonant Raman scattering: optical non-destructive grain size estimation. CrystEngComm, 2014, 16, 4120.	2.6	105
150	The effect of the Ga content on the photocatalytic hydrogen evolution of CuIn_{1âˆ'x}Ga_xS₂nanocrystals. Journal of Materials Chemistry A, 2014, 2, 12317.	10.3	76
151	Inâ€…Situ Study of Ethanol Electrooxidation on Monodispersed Pt₃Sn Nanoparticles. ChemElectroChem, 2014, 1, 885-895.	3.4	28
152	Cu₂ZnSnS₄-Pt and Cu₂ZnSnS₄-Au Heterostructured Nanoparticles for Photocatalytic Water Splitting and Pollutant Degradation. Journal of the American Chemical Society, 2014, 136, 9236-9239.	13.7	374
153	Highly crystalline hydrothermal ZnO nanowires as photoanodes in DSCs. International Journal of Nanotechnology, 2014, 11, 747.	0.2	3
154	Thermoelectric properties of bottom-up assembled Bi<SUB align="right">2S<SUB align="right">3xTe<SUB align="right">x nanocomposites. International Journal of Nanotechnology, 2014, 11, 773.	0.2	7
155	Bottom-up processing of PbTe-PbS thermoelectric nanocomposites. International Journal of Nanotechnology, 2014, 11, 955.	0.2	4
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