

# Andreu Cabot

## List of Publications by Year in descending order

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Version: 2024-02-01

216  
papers

14,248  
citations

20036

63  
h-index

26792

111  
g-index

222  
all docs

222  
docs citations

222  
times ranked

20381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature aqueous-based synthesis of copper-doped lead sulfide nanoparticles for thermoelectric application. <i>Chemical Engineering Journal</i> , 2022, 433, 133837.	6.6	8
2	Activating the lattice oxygen oxidation mechanism in amorphous molybdenum cobalt oxide nanosheets for water oxidation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3659-3666.	5.2	24
3	A High Conductivity 1D $\pi$ -Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2022, 34, e2108835.	11.1	86
4	Robust Lithium-Sulfur Batteries Enabled by Highly Conductive $\text{WSe}_2$ -Based Superlattices with Tunable Interlayer Space. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	51
5	Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodine-Doped Bismuth Selenide Nanosheets in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	49
6	Patterning with Aligned Electrospun Nanofibers by Electrostatic Deflection of Fast Jets. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	6
7	Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. <i>Chemical Engineering Journal</i> , 2022, 440, 135817.	6.6	19
8	Controlled oxygen doping in highly dispersed Ni-loaded g-C <sub>3</sub> N <sub>4</sub> nanotubes for efficient photocatalytic H <sub>2</sub> O <sub>2</sub> production. <i>Chemical Engineering Journal</i> , 2022, 441, 135999.	6.6	88
9	Branch-Regulated Palladium-Antimony Nanoparticles Boost Ethanol Electro-oxidation to Acetate. <i>Inorganic Chemistry</i> , 2022, 61, 6337-6346.	1.9	10
10	Pd <sub>2</sub> Ga nanorods as highly active bifunctional catalysts for electrosynthesis of acetic acid coupled with hydrogen production. <i>Chemical Engineering Journal</i> , 2022, 446, 136878.	6.6	11
11	2D/2D Heterojunction of TiO <sub>2</sub> Nanoparticles and Ultrathin G-C <sub>3</sub> N <sub>4</sub> Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2022, 12, 1557.	1.9	6
12	Molecular engineering to introduce carbonyl between nickel salophen active sites to enhance electrochemical CO <sub>2</sub> reduction to methanol. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121451.	10.8	32
13	Subsuming the Metal Seed to Transform Binary Metal Chalcogenide Nanocrystals into Multinary Compositions. <i>ACS Nano</i> , 2022, 16, 8917-8927.	7.3	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. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14488-14500.	5.2	12
15	Phase Engineering of Defective Copper Selenide toward Robust Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2022, 16, 11102-11114.	7.3	50
16	Surface strain-enhanced MoS <sub>2</sub> as a high-performance cathode catalyst for lithium-sulfur batteries. <i>EScience</i> , 2022, 2, 405-415.	25.0	70
17	Highly Sensitive Self-Powered H <sub>2</sub> Sensor Based on Nanostructured Thermoelectric Silicon Fabrics. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	9
18	Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003507.	10.2	91

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19	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO <sub>3</sub> /TiO <sub>2</sub> Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 449-457.	4.0	37
20	Low-Cost Control and Measurement Circuit for the Implementation of Single Element Heat Dissipation Soil Water Matric Potential Sensor Based on a SnSe <sub>2</sub> Thermosensitive Resistor. Sensors, 2021, 21, 1490.	2.1	3
21	2D Organic Layered Materials: Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries (Adv. Energy Mater. 5/2021). Advanced Energy Materials, 2021, 11, 2170022.	10.2	3
22	Synthesis, Bottom up Assembly and Thermoelectric Properties of Sb-Doped PbS Nanocrystal Building Blocks. Materials, 2021, 14, 853.	1.3	5
23	Electrocatalysis: Nickel Iron Diselenide for Highly Efficient and Selective Electrocatalytic Conversion of Methanol to Formate (Small 6/2021). Small, 2021, 17, 2170023.	5.2	3
24	High-Performance Micro-Radioisotope Thermoelectric Generator with Large-Scale Integration of Multilayer Annular Arrays through Screen Printing and Stacking Coupling. Energy Technology, 2021, 9, 2001047.	1.8	5
25	Influence of Colloidal Au on the Growth of ZnO Nanostructures. Nanomaterials, 2021, 11, 870.	1.9	9
26	Hierarchical Nanoreactor with Multiple Adsorption and Catalytic Sites for Robust Lithium-Sulfur Batteries. ACS Nano, 2021, 15, 6849-6860.	7.3	70
27	Phase formation and thermoelectric properties of Zn <sub>1</sub> +Sb binary system. Transactions of Nonferrous Metals Society of China, 2021, 31, 753-763.	1.7	4
28	Effect of the Annealing Atmosphere on Crystal Phase and Thermoelectric Properties of Copper Sulfide. ACS Nano, 2021, 15, 4967-4978.	7.3	39
29	Photodehydrogenation of Ethanol over Cu <sub>2</sub> O/TiO <sub>2</sub> Heterostructures. Nanomaterials, 2021, 11, 1399.	1.9	11
30	Tubular CoFeP@CN as a Mott-Schottky Catalyst with Multiple Adsorption Sites for Robust Lithium-Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	10.2	125
31	Architecturing 1D-2D-3D Multidimensional Coupled CsPbI <sub>2</sub> Br Perovskites toward Highly Effective and Stable Solar Cells. Small, 2021, 17, e2100888.	5.2	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.	1.7	25
33	Enhanced Thermoelectric Performance of n-Type Bi <sub>2</sub> Se <sub>3</sub> Nanosheets through Sn Doping. Nanomaterials, 2021, 11, 1827.	1.9	23
34	Doping-mediated stabilization of copper vacancies to promote thermoelectric properties of Cu <sub>2-x</sub> S. Nano Energy, 2021, 85, 105991.	8.2	26
35	NbSe <sub>2</sub> Meets C <sub>2</sub> N: A 2D-2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultra-Long-Life Lithium-Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2101250.	10.2	89
36	Ultrafast electrohydrodynamic 3D printing with in situ jet speed monitoring. Materials and Design, 2021, 206, 109791.	3.3	13

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37	Influence of copper telluride nanodomains on the transport properties of n-type bismuth telluride. <i>Chemical Engineering Journal</i> , 2021, 418, 129374.	6.6	18
38	Molecular Engineering to Tune the Ligand Environment of Atomically Dispersed Nickel for Efficient Alcohol Electrochemical Oxidation. <i>Advanced Functional Materials</i> , 2021, 31, 2106349.	7.8	27
39	A Finite Element Investigation into the Cohesive Properties of Glass-Fiber-Reinforced Polymers with Nanostructured Interphases. <i>Nanomaterials</i> , 2021, 11, 2487.	1.9	3
40	Chromium-Based Metal-Organic Framework as A Site Cation in CsPb <sub>2</sub> Br Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2106233.	7.8	36
41	Nickel Iron Diselenide for Highly Efficient and Selective Electrocatalytic Conversion of Methanol to Formate. <i>Small</i> , 2021, 17, e2006623.	5.2	29
42	Hierarchical CoP Nanostructures on Nickel Foam as Efficient Bifunctional Catalysts for Water Splitting. <i>ChemSusChem</i> , 2021, 14, 1094-1102.	3.6	20
43	Pb-Cu <sub>x</sub> S Composites for Thermoelectric Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51373-51382.	4.0	9
44	Performance of oil sorbents based on reduced graphene oxide-silica composite aerogels. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103632.	3.3	37
45	Influence of the Ligand Stripping on the Transport Properties of Nanoparticle-Based PbSe Nanomaterials. <i>ACS Applied Energy Materials</i> , 2020, 3, 2120-2129.	2.5	11
46	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4414-4422.	4.0	46
47	Hydrogen photogeneration using ternary CuGaS <sub>2</sub> -TiO <sub>2</sub> -Pt nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1510-1520.	3.8	24
48	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 15492-15504.	7.3	114
49	Phosphorous incorporation in Pd <sub>2</sub> Sn alloys for electrocatalytic ethanol oxidation. <i>Nano Energy</i> , 2020, 77, 105116.	8.2	48
50	Selective Methanol-to-Formate Electrocatalytic Conversion on Branched Nickel Carbide. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20826-20830.	7.2	83
51	Selective Methanol-to-Formate Electrocatalytic Conversion on Branched Nickel Carbide. <i>Angewandte Chemie</i> , 2020, 132, 21012-21016.	1.6	24
52	Bismuth telluride-copper telluride nanocomposites from heterostructured building blocks. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14092-14099.	2.7	15
53	SnS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> /graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. <i>Electrochimica Acta</i> , 2020, 349, 136369.	2.6	29
54	Improving Mechanical Properties of Glass Fiber Reinforced Polymers through Silica-Based Surface Nanoengineering. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2667-2675.	2.0	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 DC-DC Converters. <i>Energies</i> , 2020, 13, 2297.	1.6	15
56	Self-Induced Strain in 2D Chalcogenide Nanocrystals with Enhanced Photoelectrochemical Responsivity. <i>Chemistry of Materials</i> , 2020, 32, 2774-2781.	3.2	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5920-5926.	3.2	27
58	Low-cost tangerine peel waste mediated production of Titanium Dioxide Nanocrystals: Synthesis and characterization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 13, 100285.	1.7	14
59	Stability of Pd <sub>3</sub> Pb Nanocubes during Electrocatalytic Ethanol Oxidation. <i>Chemistry of Materials</i> , 2020, 32, 2044-2052.	3.2	62
60	A SnS <sub>2</sub> Molecular Precursor for Conformal Nanostructured Coatings. <i>Chemistry of Materials</i> , 2020, 32, 2097-2106.	3.2	9
61	Ultrafast 3D printing with submicrometer features using electrostatic jet deflection. <i>Nature Communications</i> , 2020, 11, 753.	5.8	114
62	Advanced Raman spectroscopy of Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskites and identification of Cs <sub>3</sub> Bi <sub>2</sub> Br <sub>9</sub> secondary phases. <i>Scripta Materialia</i> , 2020, 184, 24-29.	2.6	46
63	Tin Selenide Molecular Precursor for the Solution Processing of Thermoelectric Materials and Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27104-27111.	4.0	15
64	Upscaling high activity oxygen evolution catalysts based on CoFe <sub>2</sub> O <sub>4</sub> nanoparticles supported on nickel foam for power-to-gas electrochemical conversion with energy efficiencies above 80%. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118055.	10.8	35
65	In Situ Electrochemical Oxidation of Cu <sub>2</sub> S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019, 31, 7732-7743.	3.2	131
66	Ge-Doped ZnSb <sub>1/2</sub> Zn <sub>4</sub> Sb <sub>3</sub> Nanocomposites with High Thermoelectric Performance. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900467.	1.9	19
67	Porous NiTiO <sub>3</sub> /TiO <sub>2</sub> nanostructures for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17053-17059.	5.2	33
68	A low temperature solid state reaction to produce hollow Mn <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> nanoparticles as anode for lithium-ion batteries. <i>Nano Energy</i> , 2019, 66, 104199.	8.2	21
69	Superior methanol electrooxidation performance of (110)-faceted nickel polyhedral nanocrystals. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22036-22043.	5.2	38
70	Solution-Processed Ultrathin SnS <sub>2</sub> -Pt Nanoplates for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6918-6926.	4.0	57
71	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. <i>ChemSusChem</i> , 2019, 12, 1451-1458.	3.6	38
72	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchin-Like Metallic NiCo <sub>2</sub> Se <sub>4</sub> for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903842.	7.8	153

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73	Chromium phosphide CrP as highly active and stable electrocatalysts for oxygen electroreduction in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117846.	10.8	20
74	Tuning Transport Properties in Thermoelectric Nanocomposites through Inorganic Ligands and Heterostructured Building Blocks. <i>ACS Nano</i> , 2019, 13, 6572-6580.	7.3	27
75	Ligand-Mediated Band Engineering in Bottom-Up Assembled SnTe Nanocomposites for Thermoelectric Energy Conversion. <i>Journal of the American Chemical Society</i> , 2019, 141, 8025-8029.	6.6	47
76	Autonomous Soil Water Content Sensors Based on Bipolar Transistors Encapsulated in Porous Ceramic Blocks. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1211.	1.3	2
77	Compositionally tuned Ni <sub>x</sub> Sn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. <i>Electrochimica Acta</i> , 2019, 304, 246-254.	2.6	51
78	Crystallographically textured SnSe nanomaterials produced from the liquid phase sintering of nanocrystals. <i>Dalton Transactions</i> , 2019, 48, 3641-3647.	1.6	16
79	Critical role of nanoinclusions in silver selenide nanocomposites as a promising room temperature thermoelectric material. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2646-2652.	2.7	47
80	Mechanistic study of energy dependent scattering and hole-phonon interaction at hybrid polymer composite interfaces for optimized thermoelectric performance. <i>Composites Part B: Engineering</i> , 2019, 164, 54-60.	5.9	24
81	Substantial role of doping in the thermoelectric and hardness properties of nanostructured bornite, Cu <sub>5</sub> FeS <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 773, 1064-1074.	2.8	21
82	Graphene-supported palladium phosphide PdP <sub>2</sub> nanocrystals for ethanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 258-266.	10.8	76
83	Metal Oxide Aerogels with Controlled Crystallinity and Faceting from the Epoxide-Driven Cross-Linking of Colloidal Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16041-16048.	4.0	11
84	NiSn bimetallic nanoparticles as stable electrocatalysts for methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 10-18.	10.8	142
85	Thermoelectric properties of nanostructured bornite Cu <sub>5-x</sub> CoxFeS <sub>4</sub> synthesized by high energy ball milling. <i>Journal of Alloys and Compounds</i> , 2018, 750, 1-7.	2.8	15
86	Synthesis of bornite Cu <sub>5</sub> FeS <sub>4</sub> nanoparticles via high energy ball milling: Photocatalytic and thermoelectric properties. <i>Powder Technology</i> , 2018, 333, 160-166.	2.1	28
87	Triphenyl Phosphite as the Phosphorus Source for the Scalable and Cost-Effective Production of Transition Metal Phosphides. <i>Chemistry of Materials</i> , 2018, 30, 1799-1807.	3.2	65
88	Crystallographically Textured Nanomaterials Produced from the Liquid Phase Sintering of Bi <sub>x</sub> Sb <sub>2</sub> Te <sub>3</sub> Nanocrystal Building Blocks. <i>Nano Letters</i> , 2018, 18, 2557-2563.	4.5	89
89	Colloidal NiCoSn nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22915-22924.	5.2	85
90	Evaluation of the Thermoelectric Energy Harvesting Potential at Different Latitudes Using Solar Flat Panels Systems with Buried Heat Sink. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2641.	1.3	20

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91	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie</i> , 2018, 130, 17309-17314.	1.6	9
92	Large-area and adaptable electrospun silicon-based thermoelectric nanomaterials with high energy conversion efficiencies. <i>Nature Communications</i> , 2018, 9, 4759.	5.8	62
93	Common Aspects Influencing the Translocation of SERS to Biomedicine. <i>Current Medicinal Chemistry</i> , 2018, 25, 4638-4652.	1.2	18
94	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17063-17068.	7.2	23
95	Enhanced Heterojunction Quality and Performance of Kesterite Solar Cells by Aluminum Hydroxide Nanolayers and Efficiency Limitation Revealed by Atomic-resolution Scanning Transmission Electron Microscopy. <i>Solar Rrl</i> , 2018, 3, 1800279.	3.1	6
96	Thermoelectric Properties of Doped-Cu <sub>3</sub> SbSe <sub>4</sub> Compounds: A First-Principles Insight. <i>Inorganic Chemistry</i> , 2018, 57, 7321-7333.	1.9	36
97	Surface Chemistry and Nano-/Microstructure Engineering on Photocatalytic In <sub>2</sub> S <sub>3</sub> Nanocrystals. <i>Langmuir</i> , 2018, 34, 6470-6479.	1.6	17
98	SnP nanocrystals as anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10958-10966.	5.2	56
99	Topological doping effects in 2D chalcogenide thermoelectrics. <i>2D Materials</i> , 2018, 5, 045008.	2.0	5
100	Doping and Surface Effects of CuFeS <sub>2</sub> Nanocrystals Used in Thermoelectric Nanocomposites. <i>ChemNanoMat</i> , 2018, 4, 982-991.	1.5	26
101	High Thermoelectric Performance in Crystallographically Textured n-Type Bi <sub>2</sub> Te <sub>3</sub> Se Produced from Asymmetric Colloidal Nanocrystals. <i>ACS Nano</i> , 2018, 12, 7174-7184.	7.3	114
102	CuGaS <sub>2</sub> and CuGaS <sub>2</sub> -ZnS Porous Layers from Solution-Processed Nanocrystals. <i>Nanomaterials</i> , 2018, 8, 220.	1.9	7
103	Electrostatic-Driven Gelation of Colloidal Nanocrystals. <i>Langmuir</i> , 2018, 34, 9167-9174.	1.6	12
104	Colloidal Ni <sub>2</sub> Co <sub>x</sub> P nanocrystals for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11453-11462.	5.2	57
105	Colloidal Synthesis of CsX Nanocrystals (X = Cl, Br, I). <i>Nanomaterials</i> , 2018, 8, 506.	1.9	5
106	Growth of Au-Pd <sub>2</sub> Sn Nanorods via Galvanic Replacement and Their Catalytic Performance on Hydrogenation and Sonogashira Coupling Reactions. <i>Langmuir</i> , 2018, 34, 10634-10643.	1.6	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. <i>Chemical Reviews</i> , 2017, 117, 5865-6109.	23.0	670



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109	Oxidation at the atomic scale. <i>Science</i> , 2017, 356, 245-245.	6.0	3
110	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. <i>Chemical Society Reviews</i> , 2017, 46, 3510-3528.	18.7	184
111	Tuning Branching in Ceria Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 4418-4424.	3.2	19
112	Solution-based synthesis and processing of Sn- and Bi-doped Cu <sub>3</sub> SbSe <sub>4</sub> nanocrystals, nanomaterials and ring-shaped thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2592-2602.	5.2	73
113	High Catalytic Activity of W <sub>18</sub> O <sub>49</sub> Nanowire-Reduced Graphite Oxide Composite Counter Electrode for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2017, 2, 8927-8935.	0.7	12
114	Subcellular Optical pH Nanoscale Sensor. <i>ChemistrySelect</i> , 2017, 2, 8115-8121.	0.7	5
115	Measurement of the electric energy storage capacity in solar thermoelectric generators's energy harvesting modules. <i>International Journal of Distributed Sensor Networks</i> , 2017, 13, 155014771668542.	1.3	4
116	Tuning <i>p</i> -Type Transport in Bottom-Up-Engineered Nanocrystalline Pb Chalcogenides Using Alkali Metal Chalcogenides as Capping Ligands. <i>Chemistry of Materials</i> , 2017, 29, 7093-7097.	3.2	27
117	Atomistic modelling and high resolution electron microscopy simulations of CeO <sub>2</sub> nanoparticles. <i>Applied Physics Letters</i> , 2017, 111, 223107.	1.5	0
118	A Self-Powered and Autonomous Fringing Field Capacitive Sensor Integrated into a Micro Sprinkler Spinner to Measure Soil Water Content. <i>Sensors</i> , 2017, 17, 575.	2.1	36
119	Experimental analysis of an automotive thermoelectric generator under different engine operating regimes. <i>Renewable Energy and Power Quality Journal</i> , 2017, 1, 619-623.	0.2	1
120	Experiments and Simulations of an Automotive Exhaust Thermoelectric System. <i>Renewable Energy and Power Quality Journal</i> , 2017, 1, 614-618.	0.2	0
121	Thermoelectric properties of semiconductor-metal composites produced by particle blending. <i>APL Materials</i> , 2016, 4, .	2.2	50
122	Colloidal AgSbSe <sub>2</sub> nanocrystals: surface analysis, electronic doping and processing into thermoelectric nanomaterials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4756-4762.	2.7	27
123	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of AgAuSe in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. <i>Chemistry of Materials</i> , 2016, 28, 7017-7028.	3.2	26
124	Fe <sub>3</sub> O <sub>4</sub> @NiFe <sub>x</sub> O <sub>y</sub> Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29461-29469.	4.0	34
125	Pd <sub>2</sub> Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16706-16713.	5.2	65
126	Phosphonic acids aid composition adjustment in the synthesis of Cu <sub>2+x</sub> Zn <sub>1-x</sub> SnSe <sub>4-y</sub> nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	5



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127	Advanced Raman Spectroscopy of Methylammonium Lead Iodide: Development of a Non-destructive Characterisation Methodology. <i>Scientific Reports</i> , 2016, 6, 35973.	1.6	103
128	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19579-19586.	4.0	295
129	Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals as Highly Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24265-24270.	1.5	17
130	High-performance thermoelectric nanocomposites from nanocrystal building blocks. <i>Nature Communications</i> , 2016, 7, 10766.	5.8	224
131	Mn <sub>3</sub> O <sub>4</sub> @CoMn <sub>2</sub> O <sub>4</sub> "Co <sub>x</sub> O <sub>y</sub> " Nanoparticles: Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17435-17444.	4.0	72
132	Autonomous soil moisture sensor based on nanostructured thermosensitive resistors powered by an integrated thermoelectric generator. <i>Sensors and Actuators A: Physical</i> , 2016, 239, 1-7.	2.0	28
133	Scalable Heating-Up Synthesis of Monodisperse Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals. <i>Chemistry of Materials</i> , 2016, 28, 720-726.	3.2	43
134	Co-Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. <i>Langmuir</i> , 2016, 32, 2267-2276.	1.6	37
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