

Andreu Cabot

List of Publications by Citations

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205
papers

10,802
citations

53
h-index

98
g-index

222
ext. papers

12,466
ext. citations

10
avg, IF

6.33
L-index

#	Paper	IF	Citations
205	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
204	Compound Copper Chalcogenide Nanocrystals. <i>Chemical Reviews</i> , 2017 , 117, 5865-6109	68.1	493
203	Learning from nature to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. <i>Scientific Reports</i> , 2013 , 3, 1652	4.9	369
202	CuTe nanocrystals: shape and size control, plasmonic properties, and use as SERS probes and photothermal agents. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7098-101	16.4	342
201	Colloidal Synthesis of Hollow Cobalt Sulfide Nanocrystals. <i>Advanced Functional Materials</i> , 2006 , 16, 1389-1399	15.9	337
200	Cu(2)ZnSnS(4)-Pt and Cu(2)ZnSnS(4)-Au heterostructured nanoparticles for photocatalytic water splitting and pollutant degradation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9236-9	16.4	331
199	Vacancy coalescence during oxidation of iron nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10358-60	16.4	270
198	Analysis of the noble metal catalytic additives introduced by impregnation of as obtained SnO ₂ sol/gel nanocrystals for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2000 , 70, 87-100	8.5	258
197	Structure, synthesis, and applications of TiO ₂ nanobelts. <i>Advanced Materials</i> , 2015 , 27, 2557-82	24	247
196	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19579-86	9.5	243
195	Synthesis of quaternary chalcogenide nanocrystals: stannite Cu(2)Zn(x)Sn(y)Se(1+x+2y). <i>Journal of the American Chemical Society</i> , 2010 , 132, 4514-5	16.4	212
194	High-performance thermoelectric nanocomposites from nanocrystal building blocks. <i>Nature Communications</i> , 2016 , 7, 10766	17.4	184
193	Cu ₂ ZnGeSe ₄ nanocrystals: synthesis and thermoelectric properties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4060-3	16.4	182
192	Bi ₂ O ₃ as a selective sensing material for NO detection. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 74-89	8.5	178
191	Ultrahigh stress and strain in hierarchically structured hollow nanoparticles. <i>Nature Materials</i> , 2008 , 7, 947-52	27	177
190	Continuous production of Cu ₂ ZnSnS ₄ nanocrystals in a flow reactor. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1438-41	16.4	169
189	The influence of film structure on In ₂ O ₃ gas response. <i>Thin Solid Films</i> , 2004 , 460, 315-323	2.2	147

188	Influence of the catalytic introduction procedure on the nano-SnO ₂ gas sensor performances. <i>Sensors and Actuators B: Chemical</i> , 2001 , 79, 98-106	8.5	147
187	Composition Control and Thermoelectric Properties of Quaternary Chalcogenide Nanocrystals: The Case of Stannite Cu ₂ CdSnSe ₄ . <i>Chemistry of Materials</i> , 2012 , 24, 562-570	9.6	137
186	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. <i>Chemical Society Reviews</i> , 2017 , 46, 3510-3528	58.5	127
185	Core-shell nanoparticles as building blocks for the bottom-up production of functional nanocomposites: PbTe-PbS thermoelectric properties. <i>ACS Nano</i> , 2013 , 7, 2573-86	16.7	121
184	Active nano-CuPt ₃ electrocatalyst supported on graphene for enhancing reactions at the cathode in all-vanadium redox flow batteries. <i>Carbon</i> , 2012 , 50, 2372-2374	10.4	114
183	Sulfidation of cadmium at the nanoscale. <i>ACS Nano</i> , 2008 , 2, 1452-8	16.7	106
182	In ₂ O ₃ films deposited by spray pyrolysis as a material for ozone gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 297-303	8.5	102
181	Antimony-based ligand exchange to promote crystallization in spray-deposited Cu ₂ ZnSnSe ₄ solar cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15982-5	16.4	101
180	Influence of the cobalt particle size in the CO hydrogenation reaction studied by in situ X-ray absorption spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10721-7	3.4	100
179	Magnetic domains and surface effects in hollow maghemite nanoparticles. <i>Physical Review B</i> , 2009 , 79,	3.3	100
178	Metal ions to control the morphology of semiconductor nanoparticles: copper selenide nanocubes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4664-7	16.4	97
177	Reaction regimes on the synthesis of hollow particles by the Kirkendall effect. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11326-8	16.4	94
176	Morphology evolution of Cu _(2-x) S nanoparticles: from spheres to dodecahedrons. <i>Chemical Communications</i> , 2011 , 47, 10332-4	5.8	92
175	Electron doping in bottom-up engineered thermoelectric nanomaterials through HCl-mediated ligand displacement. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4046-9	16.4	87
174	ZnS grain size effects on near-resonant Raman scattering: optical non-destructive grain size estimation. <i>CrystEngComm</i> , 2014 , 16, 4120	3.3	87
173	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchin-Like Metallic NiCo ₂ Se ₄ for High-Performance Lithium Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1903842	15.6	85
172	Mesoporous catalytic filters for semiconductor gas sensors. <i>Thin Solid Films</i> , 2003 , 436, 64-69	2.2	85
171	Colloidal synthesis and thermoelectric properties of Cu ₂ SnSe ₃ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1421-1426	13	84

170	NiSn bimetallic nanoparticles as stable electrocatalysts for methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 10-18	21.8	82
169	Influence on the gas sensor performances of the metal chemical states introduced by impregnation of calcinated SnO ₂ sol-gel nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2000 , 68, 94-99	8.5	76
168	Advanced Raman Spectroscopy of Methylammonium Lead Iodide: Development of a Non-destructive Characterisation Methodology. <i>Scientific Reports</i> , 2016 , 6, 35973	4.9	75
167	Analysis of the catalytic activity and electrical characteristics of different modified SnO ₂ layers for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2002 , 84, 12-20	8.5	73
166	High Thermoelectric Performance in Crystallographically Textured n-Type BiTeSe Produced from Asymmetric Colloidal Nanocrystals. <i>ACS Nano</i> , 2018 , 12, 7174-7184	16.7	73
165	Crystallographic Control at the Nanoscale To Enhance Functionality: Polytypic Cu ₂ GeSe ₃ Nanoparticles as Thermoelectric Materials. <i>Chemistry of Materials</i> , 2012 , 24, 4615-4622	9.6	70
164	In Situ Electrochemical Oxidation of Cu ₂ S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 7732-7743	9.6	69
163	Influence of the Annealing Atmosphere on the Performance of ZnO Nanowire Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16349-16356	3.8	66
162	Extending the Nanocrystal Synthesis Control to Quaternary Compositions. <i>Crystal Growth and Design</i> , 2012 , 12, 1085-1090	3.5	65
161	Means and Limits of Control of the Shell Parameters in Hollow Nanoparticles Obtained by the Kirkendall Effect. <i>Chemistry of Materials</i> , 2011 , 23, 3095-3104	9.6	64
160	Crystallographically Textured Nanomaterials Produced from the Liquid Phase Sintering of Bi SbTe Nanocrystal Building Blocks. <i>Nano Letters</i> , 2018 , 18, 2557-2563	11.5	63
159	The effect of the Ga content on the photocatalytic hydrogen evolution of CuIn _{1-x} Ga _x S ₂ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12317	13	63
158	Cobalt(II/III) redox electrolyte in ZnO nanowire-based dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1902-6	9.5	62
157	Mn ₃ O ₄ @CoMn ₂ O ₄ -Co _x O _y Nanoparticles: Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17435-44	9.5	60
156	In ₂ O ₃ films deposited by spray pyrolysis: gas response to reducing (CO, H ₂) gases. <i>Sensors and Actuators B: Chemical</i> , 2004 , 98, 122-129	8.5	60
155	Ultrafast 3D printing with submicrometer features using electrostatic jet deflection. <i>Nature Communications</i> , 2020 , 11, 753	17.4	59
154	Raman scattering quantitative analysis of the anion chemical composition in kesterite Cu ₂ ZnSn(S _x Se _{1-x}) ₄ solid solutions. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 464-470	5.7	59
153	Location and catalytic role of iron species in TiO ₂ :Fe photocatalysts: An EPR study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 211, 170-175	4.7	57

152	Solution-based synthesis and processing of Sn- and Bi-doped Cu ₃ SbSe ₄ nanocrystals, nanomaterials and ring-shaped thermoelectric generators. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2592-2602	13	53
151	Microwave processing for the low cost, mass production of undoped and in situ catalytic doped nanosized SnO ₂ gas sensor powders. <i>Sensors and Actuators B: Chemical</i> , 2000 , 64, 65-69	8.5	52
150	Pd ₂ Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16706-16713	13	52
149	Control of the doping concentration, morphology and optoelectronic properties of vertically aligned chlorine-doped ZnO nanowires. <i>Acta Materialia</i> , 2011 , 59, 6790-6800	8.4	50
148	Colloidal NiCoSn nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22915-22924	13	49
147	Cu ₂ ZnSnS ₄ /Ag ₂ S Nanoscale p-n Heterostructures as Sensitizers for Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2015 , 31, 10555-61	4	48
146	Graphene-supported palladium phosphide PdP ₂ nanocrystals for ethanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 258-266	21.8	48
145	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	9.6	45
144	CO/H ₄ selectivity enhancement by in situ Pd-catalysed microwave SnO ₂ nanoparticles for gas detectors using active filter. <i>Sensors and Actuators B: Chemical</i> , 2001 , 78, 151-160	8.5	45
143	Cu ₂ ZnSnS ₄ /PtM (M = Co, Ni) Nanoheterostructures for Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21882-21888	3.8	44
142	Large-area and adaptable electrospun silicon-based thermoelectric nanomaterials with high energy conversion efficiencies. <i>Nature Communications</i> , 2018 , 9, 4759	17.4	44
141	Colloidal Ni ₂ CoxP nanocrystals for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11453-11462	13	43
140	Organic ligand displacement by metal salts to enhance nanoparticle functionality: thermoelectric properties of Ag ₂ Te. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4864	13	43
139	Distributions of noble metal Pd and Pt in mesoporous silica. <i>Applied Physics Letters</i> , 2002 , 81, 3449-3451	3.4	43
138	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020 , 14, 15492-15504	16.7	43
137	SnP nanocrystals as anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10958-10963	8.3	43
136	In situ XPS study of the adsorption and reactions of NO and O ₂ on gold nanoparticles deposited on TiO ₂ and SiO ₂ . <i>Journal of Catalysis</i> , 2011 , 283, 119-123	7.3	42
135	Polarity-driven polytypic branching in Cu-based quaternary chalcogenide nanostructures. <i>ACS Nano</i> , 2014 , 8, 2290-301	16.7	41

134	Reactivity of Au nanoparticles supported over SiO ₂ and TiO ₂ studied by ambient pressure photoelectron spectroscopy. <i>Catalysis Today</i> , 2009 , 143, 158-166	5.3	41
133	Tubular CoFeP@CN as a Mott-Schottky Catalyst with Multiple Adsorption Sites for Robust Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100432	21.8	40
132	Autonomous Multisensor System Powered by a Solar Thermoelectric Energy Harvester With Ultralow-Power Management Circuit. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 2918-2925	5.2	39
131	Scalable Heating-Up Synthesis of Monodisperse Cu ₂ ZnSnS ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 720-726	9.6	39
130	Thermoelectric properties of semiconductor-metal composites produced by particle blending. <i>APL Materials</i> , 2016 , 4, 104813	5.7	38
129	Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias. <i>Physical Review B</i> , 2011 , 84,	3.3	37
128	Solution-Processed Ultrathin SnS-Pt Nanoplates for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6918-6926	9.5	36
127	Growth Kinetics of Asymmetric Bi ₂ S ₃ Nanocrystals: Size Distribution Focusing in Nanorods. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7947-7955	3.8	36
126	Atomically dispersed Fe in a C ₂ N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003507	21.8	36
125	Compositionally tuned Ni _x 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	6.7	35
124	Chemistry. All change for nanocrystals. <i>Science</i> , 2013 , 340, 935-6	33.3	34
123	Crystallographic characterization of In ₂ O ₃ films deposited by spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , 2002 , 84, 37-42	8.5	34
122	Stability of Pd ₃ Pb Nanocubes during Electrocatalytic Ethanol Oxidation. <i>Chemistry of Materials</i> , 2020 , 32, 2044-2052	9.6	33
121	Critical role of nano-inclusions in silver selenide nanocomposites as a promising room temperature thermoelectric material. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2646-2652	7.1	32
120	Co-Cu Nanoparticles: Synthesis by Galvanic Replacement and Phase Rearrangement during Catalytic Activation. <i>Langmuir</i> , 2016 , 32, 2267-76	4	30
119	FeO@NiFeO Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29461-29469	9.5	30
118	Visible Photoluminescence Components of Solution-Grown ZnO Nanowires: Influence of the Surface Depletion Layer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19496-19502	3.8	29
117	Selective Methanol-to-Formate Electrocatalytic Conversion on Branched Nickel Carbide. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20826-20830	16.4	29

116	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	16.4	28
115	NH ₃ sensing with self-assembled ZnO-nanowire BP sensors in isothermal and temperature-pulsed mode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 110-117	8.5	26
114	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. <i>ChemSusChem</i> , 2019 , 12, 1451-1458	8.3	25
113	In Situ Study of Ethanol Electrooxidation on Monodispersed Pt ₃ Sn Nanoparticles. <i>ChemElectroChem</i> , 2014 , 1, 885-895	4.3	25
112	Size and aspect ratio control of Pd ₃ Sn nanorods and their water denitration properties. <i>Langmuir</i> , 2015 , 31, 3952-7	4	24
111	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,	3.8	24
110	Solution-growth and optoelectronic properties of ZnO:Cl@ZnS core-shell nanowires with tunable shell thickness. <i>Journal of Alloys and Compounds</i> , 2013 , 555, 213-218	5.7	24
109	Enhancement of the photoelectrochemical properties of Cl-doped ZnO nanowires by tuning their coaxial doping profile. <i>Applied Physics Letters</i> , 2011 , 99, 262102	3.4	24
108	Solution-growth and optoelectronic performance of ZnO : Cl/TiO ₂ and ZnO : Cl/Zn _x TiO _y /TiO ₂ core-shell nanowires with tunable shell thickness. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 415301	3	24
107	Surface states in template synthesized tin oxide nanoparticles. <i>Journal of Applied Physics</i> , 2004 , 95, 2178-2180	2.5	24
106	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4414-4422	9.5	24
105	Upscaling high activity oxygen evolution catalysts based on CoFe ₂ O ₄ 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	21.8	23
104	Bottom-up processing of thermoelectric nanocomposites from colloidal nanocrystal building blocks: the case of Ag ₂ Te/PbTe. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	23
103	Assessment of absorber composition and nanocrystalline phases in CuInS ₂ based photovoltaic technologies by ex-situ/in-situ resonant Raman scattering measurements. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, S83-S88	6.4	23
102	Performance of oil sorbents based on reduced graphene oxide/silica composite aerogels. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103632	6.8	23
101	Phosphorous incorporation in Pd ₂ Sn alloys for electrocatalytic ethanol oxidation. <i>Nano Energy</i> , 2020 , 77, 105116	17.1	23
100	Hierarchical Nanoreactor with Multiple Adsorption and Catalytic Sites for Robust Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 , 15, 6849-6860	16.7	23
99	Superior methanol electrooxidation performance of (110)-faceted nickel polyhedral nanocrystals. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22036-22043	13	22

98	Influence of substrate temperature on the structural and optical properties of crystalline ZnO films obtained by pulsed spray pyrolysis. <i>Surface and Interface Analysis</i> , 2015 , 47, 601-606	1.5	22
97	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	3.9	22
96	Cu ₂ HgSnSe ₄ nanoparticles: synthesis and thermoelectric properties. <i>CrystEngComm</i> , 2013 , 15, 8966	3.3	22
95	Porous NiTiO ₃ /TiO ₂ nanostructures for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17053-17059	13	21
94	Tuning π -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	9.6	21
93	Synthesis of bornite Cu ₅ FeS ₄ nanoparticles via high energy ball milling: Photocatalytic and thermoelectric properties. <i>Powder Technology</i> , 2018 , 333, 160-166	5.2	20
92	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14170	13	20
91	Synthesis of Tin Oxide Nanostructures with Controlled Particle Size Using Mesoporous Frameworks. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, G93		20
90	Colloidal AgSbSe ₂ nanocrystals: surface analysis, electronic doping and processing into thermoelectric nanomaterials. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4756-4762	7.1	20
89	Thermoelectric Properties of Doped-CuSbSe Compounds: A First-Principles Insight. <i>Inorganic Chemistry</i> , 2018 , 57, 7321-7333	5.1	19
88	Enhanced photovoltaic performance of nanowire dye-sensitized solar cells based on coaxial TiO ₂ @TiO heterostructures with a cobalt(II/III) redox electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9872-7	9.5	18
87	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Ag ₂ AuSe in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. <i>Chemistry of Materials</i> , 2016 , 28, 7017-7028	9.6	18
86	NbSe ₂ Meets C ₂ N: A 2D-2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultra-Long-Life Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101250	21.8	18
85	Tuning Transport Properties in Thermoelectric Nanocomposites through Inorganic Ligands and Heterostructured Building Blocks. <i>ACS Nano</i> , 2019 , 13, 6572-6580	16.7	17
84	Advanced Raman spectroscopy of Cs ₂ AgBiBr ₆ double perovskites and identification of Cs ₃ Bi ₂ Br ₉ secondary phases. <i>Scripta Materialia</i> , 2020 , 184, 24-29	5.6	17
83	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	8.3	16
82	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	10	16
81	Substantial role of doping in the thermoelectric and hardness properties of nanostructured bornite, Cu ₅ FeS ₄ . <i>Journal of Alloys and Compounds</i> , 2019 , 773, 1064-1074	5.7	16

80	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	2.6	16
79	Effect of the Annealing Atmosphere on Crystal Phase and Thermoelectric Properties of Copper Sulfide. <i>ACS Nano</i> , 2021 , 15, 4967-4978	16.7	15
78	Doping and Surface Effects of CuFeS ₂ Nanocrystals Used in Thermoelectric Nanocomposites. <i>ChemNanoMat</i> , 2018 , 4, 982-991	3.5	15
77	Tuning Branching in Ceria Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 4418-4424	9.6	14
76	Thermoelectric properties of nanostructured bornite Cu _{5-x} CoxFeS ₄ synthesized by high energy ball milling. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 1-7	5.7	14
75	Hydrogen photogeneration using ternary CuGaS ₂ -TiO ₂ -Pt nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1510-1520	6.7	14
74	Common Aspects Influencing the Translocation of SERS to Biomedicine. <i>Current Medicinal Chemistry</i> , 2018 , 25, 4638-4652	4.3	14
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	21.8	13
72	Cu ₂ ZnSnS ₄ Nanocrystals as Highly Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24265-24270	3.8	13
71	Crystallographically textured SnSe nanomaterials produced from the liquid phase sintering of nanocrystals. <i>Dalton Transactions</i> , 2019 , 48, 3641-3647	4.3	12
70	Ge-Doped ZnSb/ $\sqrt{3}$ × $\sqrt{3}$ ×n4Sb ₃ Nanocomposites with High Thermoelectric Performance. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900467	4.6	12
69	A low temperature solid state reaction to produce hollow Mn _x Fe _{3-x} O ₄ nanoparticles as anode for lithium-ion batteries. <i>Nano Energy</i> , 2019 , 66, 104199	17.1	12
68	A High Conductivity One-Dimensional β Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , 2022 , e2108835 ²⁴		12
67	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17063-17068	16.4	12
66	Surface Chemistry and Nano-/Microstructure Engineering on Photocatalytic InS Nanocrystals. <i>Langmuir</i> , 2018 , 34, 6470-6479	4	12
65	SnS ₂ /g-C ₃ N ₄ /graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. <i>Electrochimica Acta</i> , 2020 , 349, 136369	6.7	11
64	Chromium-Based Metal-Organic Framework as A-Site Cation in CsPbI ₂ Br Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2106233	15.6	11
63	High Catalytic Activity of W ₁₈ O ₄₉ Nanowire-Reduced Graphite Oxide Composite Counter Electrode for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2017 , 2, 8927-8935	1.8	10

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