

Maksym Kovalenko

List of Publications by Citations

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330
papers

36,988
citations

81
h-index

188
g-index

397
ext. papers

43,496
ext. citations

12.2
avg, IF

7.88
L-index

#	Paper	IF	Citations
330	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. <i>Nano Letters</i> , 2015 , 15, 3692-6	11.5	4888
329	Prospects of colloidal nanocrystals for electronic and optoelectronic applications. <i>Chemical Reviews</i> , 2010 , 110, 389-458	68.1	3354
328	Fast Anion-Exchange in Highly Luminescent Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, I). <i>Nano Letters</i> , 2015 , 15, 5635-40	11.5	1515
327	Properties and potential optoelectronic applications of lead halide perovskite nanocrystals. <i>Science</i> , 2017 , 358, 745-750	33.3	1190
326	Genesis, challenges and opportunities for colloidal lead halide perovskite nanocrystals. <i>Nature Materials</i> , 2018 , 17, 394-405	27	1074
325	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. <i>Nature Communications</i> , 2015 , 6, 8056	17.4	1058
324	Highly Dynamic Ligand Binding and Light Absorption Coefficient of Cesium Lead Bromide Perovskite Nanocrystals. <i>ACS Nano</i> , 2016 , 10, 2071-81	16.7	1033
323	Colloidal nanocrystals with molecular metal chalcogenide surface ligands. <i>Science</i> , 2009 , 324, 1417-20	33.3	852
322	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
321	Detection of X-ray photons by solution-processed organic-inorganic perovskites. <i>Nature Photonics</i> , 2015 , 9, 444-449	33.9	685
320	Lead Halide Perovskite Nanocrystals in the Research Spotlight: Stability and Defect Tolerance. <i>ACS Energy Letters</i> , 2017 , 2, 2071-2083	20.1	656
319	Band-like transport, high electron mobility and high photoconductivity in all-inorganic nanocrystal arrays. <i>Nature Nanotechnology</i> , 2011 , 6, 348-52	28.7	597
318	Metal-free inorganic ligands for colloidal nanocrystals: S ²⁻ , HS ⁻ , Se ²⁻ , HSe ⁻ , Te ²⁻ , HTe ⁻ , TeS ₃ (²⁻), OH ⁻ , and NH ₂ ⁻ as surface ligands. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10612-20	16.4	564
317	Bright triplet excitons in caesium lead halide perovskites. <i>Nature</i> , 2018 , 553, 189-193	50.4	517
316	Near-infrared imaging with quantum-dot-sensitized organic photodiodes. <i>Nature Photonics</i> , 2009 , 3, 332-336	33.9	512
315	Colloidal CsPbX (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. <i>ACS Energy Letters</i> , 2018 , 3, 641-646	20.1	435
314	Harnessing Defect-Tolerance at the Nanoscale: Highly Luminescent Lead Halide Perovskite Nanocrystals in Mesoporous Silica Matrixes. <i>Nano Letters</i> , 2016 , 16, 5866-74	11.5	396

313	Monodisperse antimony nanocrystals for high-rate Li-ion and Na-ion battery anodes: nano versus bulk. <i>Nano Letters</i> , 2014 , 14, 1255-62	11.5	380
312	Synthesis of Cesium Lead Halide Perovskite Nanocrystals in a Droplet-Based Microfluidic Platform: Fast Parametric Space Mapping. <i>Nano Letters</i> , 2016 , 16, 1869-77	11.5	349
311	Fatty acid salts as stabilizers in size- and shape-controlled nanocrystal synthesis: the case of inverse spinel iron oxide. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6352-3	16.4	336
310	Detection of gamma photons using solution-grown single crystals of hybrid lead halide perovskites. <i>Nature Photonics</i> , 2016 , 10, 585-589	33.9	331
309	Monodisperse and inorganically capped Sn and Sn/SnO ₂ nanocrystals for high-performance Li-ion battery anodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4199-202	16.4	314
308	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14202-14205	16.4	297
307	Dismantling the "Red Wall" of Colloidal Perovskites: Highly Luminescent Formamidinium and Formamidinium-Cesium Lead Iodide Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 3119-3134	16.7	291
306	Gold/Iron Oxide Core/Hollow-Shell Nanoparticles. <i>Advanced Materials</i> , 2008 , 20, 4323-4329	24	284
305	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
304	Superfluorescence from lead halide perovskite quantum dot superlattices. <i>Nature</i> , 2018 , 563, 671-675	50.4	240
303	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. <i>ACS Nano</i> , 2016 , 10, 2485-90	16.7	239
302	Expanding the chemical versatility of colloidal nanocrystals capped with molecular metal chalcogenide ligands. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10085-92	16.4	239
301	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. <i>ACS Nano</i> , 2016 , 10, 9720-9729	16.7	239
300	Solution-Grown CsPbBr ₃ Perovskite Single Crystals for Photon Detection. <i>Chemistry of Materials</i> , 2016 , 28, 8470-8474	9.6	224
299	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
298	Coherent single-photon emission from colloidal lead halide perovskite quantum dots. <i>Science</i> , 2019 , 363, 1068-1072	33.3	218
297	Lead halide perovskites and other metal halide complexes as inorganic capping ligands for colloidal nanocrystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6550-3	16.4	215
296	Rationalizing and Controlling the Surface Structure and Electronic Passivation of Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 63-74	20.1	197

295	Polar-solvent-free colloidal synthesis of highly luminescent alkylammonium lead halide perovskite nanocrystals. <i>Nanoscale</i> , 2016 , 8, 6278-83	7.7	196
294	Disphenoidal Zero-Dimensional Lead, Tin, and Germanium Halides: Highly Emissive Singlet and Triplet Self-Trapped Excitons and X-ray Scintillation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9764-9768	16.4	186
293	High-performance thermoelectric nanocomposites from nanocrystal building blocks. <i>Nature Communications</i> , 2016 , 7, 10766	17.4	184
292	Energetic and entropic contributions to self-assembly of binary nanocrystal superlattices: temperature as the structure-directing factor. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11967-77	16.4	184
291	Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 3819-3831	16.7	181
290	High-Temperature Photoluminescence of CsPbX ₃ (X = Cl, Br, I) Nanocrystals. <i>Advanced Functional Materials</i> , 2017 , 27, 1606750	15.6	173
289	Inkjet-Printed Nanocrystal Photodetectors Operating up to 3 μ m Wavelengths. <i>Advanced Materials</i> , 2007 , 19, 3574-3578	24	163
288	Highly Emissive Self-Trapped Excitons in Fully Inorganic Zero-Dimensional Tin Halides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11329-11333	16.4	162
287	Efficient Aluminum Chloride-Natural Graphite Battery. <i>Chemistry of Materials</i> , 2017 , 29, 4484-4492	9.6	157
286	Colloidal HgTe nanocrystals with widely tunable narrow band gap energies: from telecommunications to molecular vibrations. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3516-7	16.4	152
285	Pyrite (FeS ₂) nanocrystals as inexpensive high-performance lithium-ion cathode and sodium-ion anode materials. <i>Nanoscale</i> , 2015 , 7, 9158-63	7.7	151
284	High-resolution remote thermometry and thermography using luminescent low-dimensional tin-halide perovskites. <i>Nature Materials</i> , 2019 , 18, 846-852	27	149
283	SnTe nanocrystals: a new example of narrow-gap semiconductor quantum dots. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11354-5	16.4	146
282	Rashba Effect in a Single Colloidal CsPbBr Perovskite Nanocrystal Detected by Magneto-Optical Measurements. <i>Nano Letters</i> , 2017 , 17, 5020-5026	11.5	143
281	Semiconductor nanocrystals functionalized with antimony telluride zintl ions for nanostructured thermoelectrics. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6686-95	16.4	140
280	High-energy-density dual-ion battery for stationary storage of electricity using concentrated potassium fluorosulfonylimide. <i>Nature Communications</i> , 2018 , 9, 4469	17.4	140
279	The ground exciton state of formamidinium lead bromide perovskite nanocrystals is a singlet dark state. <i>Nature Materials</i> , 2019 , 18, 717-724	27	131
278	Inorganically functionalized PbS-CdS colloidal nanocrystals: integration into amorphous chalcogenide glass and luminescent properties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2457-60	16.4	130

277	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
276	Polypyrenes as High-Performance Cathode Materials for Aluminum Batteries. <i>Advanced Materials</i> , 2018 , 30, e1705644	24	122
275	Zeolite-Templated Carbon as an Ordered Microporous Electrode for Aluminum Batteries. <i>ACS Nano</i> , 2017 , 11, 1911-1919	16.7	119
274	Monodisperse SnSb nanocrystals for Li-ion and Na-ion battery anodes: synergy and dissonance between Sn and Sb. <i>Nanoscale</i> , 2015 , 7, 455-9	7.7	118
273	Sensitized solar cells with colloidal PbS-CdS core-shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 736-42	3.6	117
272	Single crystals of caesium formamidinium lead halide perovskites: solution growth and gamma dosimetry. <i>NPG Asia Materials</i> , 2017 , 9, e373-e373	10.3	114
271	Hydrogen-like Wannier-Mott Excitons in Single Crystal of Methylammonium Lead Bromide Perovskite. <i>ACS Nano</i> , 2016 , 10, 6363-71	16.7	114
270	5.2% efficient PbS nanocrystal Schottky solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3054	35.4	114
269	Solution-Processable Near-IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. <i>Advanced Materials</i> , 2009 , 21, 683-687	24	106
268	Low-Cost Synthesis of Highly Luminescent Colloidal Lead Halide Perovskite Nanocrystals by Wet Ball Milling. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1300-1308	5.6	104
267	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>ACS Nano</i> , 2018 , 12, 5504-5517	16.7	99
266	Alkyl chains of surface ligands affect polytypism of cdse nanocrystals and play an important role in the synthesis of anisotropic nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15866-8	16.4	99
265	Guanidinium-Formamidinium Lead Iodide: A Layered Perovskite-Related Compound with Red Luminescence at Room Temperature. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3850-3853	16.4	98
264	Temperature dependent behaviour of lead sulfide quantum dot solar cells and films. <i>Energy and Environmental Science</i> , 2016 , 9, 2916-2924	35.4	98
263	Counterion-Mediated Ligand Exchange for PbS Colloidal Quantum Dot Superlattices. <i>ACS Nano</i> , 2015 , 9, 11951-9	16.7	97
262	Quasi-seeded growth of ligand-tailored PbSe nanocrystals through cation-exchange-mediated nucleation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3029-33	16.4	97
261	Luminescent and Photoconductive Layered Lead Halide Perovskite Compounds Comprising Mixtures of Cesium and Guanidinium Cations. <i>Inorganic Chemistry</i> , 2017 , 56, 11552-11564	5.1	96
260	Hybrid Metal Halides with Multiple Photoluminescence Centers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18670-18675	16.4	93

259	Direct Synthesis of Quaternary Alkylammonium-Capped Perovskite Nanocrystals for Efficient Blue and Green Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2019 , 4, 2703-2711	20.1	89
258	Monodisperse colloidal gallium nanoparticles: synthesis, low temperature crystallization, surface plasmon resonance and Li-ion storage. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12422-30	16.4	87
257	Structure of Colloidal Quantum Dots from Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13964-71	16.4	86
256	Energy Transfer between Inorganic Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13310-13315	3.8	86
255	Unraveling exciton-phonon coupling in individual FAPbI nanocrystals emitting near-infrared single photons. <i>Nature Communications</i> , 2018 , 9, 3318	17.4	84
254	Optical Properties of Organic Semiconductor Blends with Near-Infrared Quantum-Dot Sensitizers for Light Harvesting Applications. <i>Advanced Energy Materials</i> , 2011 , 1, 802-812	21.8	84
253	Tuning the magnetic properties of metal oxide nanocrystal heterostructures by cation exchange. <i>Nano Letters</i> , 2013 , 13, 586-93	11.5	83
252	Kish Graphite Flakes as a Cathode Material for an Aluminum Chloride-Graphite Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28478-28485	9.5	83
251	Efficient Lone-Pair-Driven Luminescence: Structure-Property Relationships in Emissive 5s Metal Halides 2020 , 2, 1218-1232		83
250	Facile Droplet-based Microfluidic Synthesis of Monodisperse IV-VI Semiconductor Nanocrystals with Coupled In-Line NIR Fluorescence Detection. <i>Chemistry of Materials</i> , 2014 , 26, 2975-2982	9.6	82
249	Efficient and Inexpensive Sodium-Magnesium Hybrid Battery. <i>Chemistry of Materials</i> , 2015 , 27, 7452-7458	9.6	81
248	Origin of the increased open circuit voltage in PbS/CdS core-shell quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1450-1457	13	81
247	Unveiling the Shape Evolution and Halide-Ion-Segregation in Blue-Emitting Formamidinium Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>Nano Letters</i> , 2018 , 18, 1246-1252	11.5	81
246	Unraveling the core-shell structure of ligand-capped Sn/SnOx nanoparticles by surface-enhanced nuclear magnetic resonance, Mössbauer, and X-ray absorption spectroscopies. <i>ACS Nano</i> , 2014 , 8, 2639-48	16.7	81
245	Bright Blue and Green Luminescence of Sb(III) in Double Perovskite CsMInCl (M = Na, K) Matrices. <i>Chemistry of Materials</i> , 2020 , 32, 5118-5124	9.6	80
244	Crystal symmetry breaking and vacancies in colloidal lead chalcogenide quantum dots. <i>Nature Materials</i> , 2016 , 15, 987-94	27	80
243	Surface functionalization of semiconductor and oxide nanocrystals with small inorganic oxoanions (PO ₄ (3-), MoO ₄ (2-)) and polyoxometalate ligands. <i>ACS Nano</i> , 2014 , 8, 9388-402	16.7	80
242	A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn, Cu, Sn, and Their Alloys) via in Situ Formed Metal Long-Chain Amides. <i>Chemistry of Materials</i> , 2015 , 27, 635-647	9.6	78

241	Manganese(II) in Tetrahedral Halide Environment: Factors Governing Bright Green Luminescence. <i>Chemistry of Materials</i> , 2019 , 31, 10161-10169	9.6	78
240	Large-area ordered superlattices from magnetic Wustite/cobalt ferrite core/shell nanocrystals by doctor blade casting. <i>ACS Nano</i> , 2010 , 4, 423-31	16.7	76
239	Highly monodisperse bismuth nanoparticles and their three-dimensional superlattices. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15158-9	16.4	76
238	Exciton-Exciton Interaction and Optical Gain in Colloidal CdSe/CdS Dot/Rod Nanocrystals. <i>Advanced Materials</i> , 2009 , 21, 4942-4946	24	76
237	Inexpensive colloidal SnSb nanoalloys as efficient anode materials for lithium- and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7053-7059	13	75
236	Rechargeable Dual-Ion Batteries with Graphite as a Cathode: Key Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2019 , 9, 1901749	21.8	75
235	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
234	Nanocrystal superlattices with thermally degradable hybrid inorganic-organic capping ligands. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15124-6	16.4	71
233	Stable Ultraconcentrated and Ultradilute Colloids of CsPbX (X = Cl, Br) Nanocrystals Using Natural Lecithin as a Capping Ligand. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19839-19849	16.4	71
232	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21655-21660	9.5	70
231	Exchange-coupled bimagnetic wüstite/metal ferrite core/shell nanocrystals: size, shape, and compositional control. <i>Small</i> , 2009 , 5, 2247-52	11	69
230	Challenges and benefits of post-lithium-ion batteries. <i>New Journal of Chemistry</i> , 2020 , 44, 1677-1683	3.6	66
229	Microfluidic Reactors Provide Preparative and Mechanistic Insights into the Synthesis of Formamidinium Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 8433-8439	9.6	65
228	Opportunities and challenges for quantum dot photovoltaics. <i>Nature Nanotechnology</i> , 2015 , 10, 994-7	28.7	64
227	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
226	Hybrid Solar Cells Using HgTe Nanocrystals and Nanoporous TiO ₂ Electrodes. <i>Advanced Functional Materials</i> , 2006 , 16, 1095-1099	15.6	63
225	Colloidal tin-germanium nanorods and their Li-ion storage properties. <i>ACS Nano</i> , 2014 , 8, 2360-8	16.7	62
224	Aluminum Chloride-Graphite Batteries with Flexible Current Collectors Prepared from Earth-Abundant Elements. <i>Advanced Science</i> , 2018 , 5, 1700712	13.6	60

223	Inexpensive antimony nanocrystals and their composites with red phosphorus as high-performance anode materials for Na-ion batteries. <i>Scientific Reports</i> , 2015 , 5, 8418	4.9	57
222	Precisely Engineered Colloidal Nanoparticles and Nanocrystals for Li-Ion and Na-Ion Batteries: Model Systems or Practical Solutions?. <i>Chemistry of Materials</i> , 2014 , 26, 5422-5432	9.6	57
221	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 3648-3653	11.5	56
220	Exciton Recombination in Formamidinium Lead Triiodide: Nanocrystals versus Thin Films. <i>Small</i> , 2017 , 13, 1700673	11	54
219	Coherent spin dynamics of electrons and holes in CsPbBr perovskite crystals. <i>Nature Communications</i> , 2019 , 10, 673	17.4	54
218	High infrared photoconductivity in films of arsenic-sulfide-encapsulated lead-sulfide nanocrystals. <i>ACS Nano</i> , 2014 , 8, 12883-94	16.7	54
217	Pick a Color MARIA: Adaptive Sampling Enables the Rapid Identification of Complex Perovskite Nanocrystal Compositions with Defined Emission Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18869-18878	9.5	54
216	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
215	Localized holes and delocalized electrons in photoexcited inorganic perovskites: Watching each atomic actor by picosecond X-ray absorption spectroscopy. <i>Structural Dynamics</i> , 2017 , 4, 044002	3.2	52
214	Temperature Dependence of the Amplified Spontaneous Emission from CsPbBr ₃ Nanocrystal Thin Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5813-5819	3.8	51
213	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. <i>Science Advances</i> , 2017 , 3, eaaq0208	14.3	51
212	Stoichiometric control of the density of states in PbS colloidal quantum dot solids. <i>Science Advances</i> , 2017 , 3, eaao1558	14.3	50
211	Langmuir-Schaefer deposition of quantum dot multilayers. <i>Langmuir</i> , 2010 , 26, 7732-6	4	50
210	Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Hetero-Nanoplatelets Enabled by ZnS-Shell Hot-Injection Growth. <i>Small</i> , 2019 , 15, e1804854	11	49
209	Perovskite-type superlattices from lead halide perovskite nanocubes. <i>Nature</i> , 2021 , 593, 535-542	50.4	49
208	Long-Lived Hot Carriers in Formamidinium Lead Iodide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12434-12440	3.8	48
207	Solid-State NMR and NQR Spectroscopy of Lead-Halide Perovskite Materials. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19413-19437	16.4	47
206	Crystal Structure, Morphology, and Surface Termination of Cyan-Emissive, Six-Monolayers-Thick CsPbBr Nanoplatelets from X-ray Total Scattering. <i>ACS Nano</i> , 2019 , 13, 14294-14307	16.7	47

205	Lead Halide Perovskite Nanocrystals: From Discovery to Self-assembly and Applications. <i>Chimia</i> , 2017 , 71, 461-470	1.3	46
204	Energy transfer in close-packed PbS nanocrystal films. <i>Physical Review B</i> , 2008 , 77,	3.3	45
203	Double Gate PbS Quantum Dot Field-Effect Transistors for Tuneable Electrical Characteristics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500467	6.4	43
202	SnP nanocrystals as anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10958-10963	5.3	43
201	Nanocrystalline FeF ₃ and MF ₂ (M = Fe, Co, and Mn) from metal trifluoroacetates and their Li(Na)-ion storage properties. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7383-7393	13	42
200	Copper sulfide nanoparticles as high-performance cathode materials for Mg-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 7988	4.9	42
199	Infrared Emitting PbS Nanocrystal Solids through Matrix Encapsulation. <i>Chemistry of Materials</i> , 2014 , 26, 4256-4264	9.6	42
198	Random Lasing with Systematic Threshold Behavior in Films of CdSe/CdS Core/Thick-Shell Colloidal Quantum Dots. <i>ACS Nano</i> , 2015 , 9, 9792-801	16.7	41
197	Monodisperse CoSn and FeSn nanocrystals as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 6827-6831	7.7	41
196	Colloidal Bismuth Nanocrystals as a Model Anode Material for Rechargeable Mg-Ion Batteries: Atomistic and Mesoscale Insights. <i>ACS Nano</i> , 2018 , 12, 8297-8307	16.7	41
195	Phonon Interaction and Phase Transition in Single Formamidinium Lead Bromide Quantum Dots. <i>Nano Letters</i> , 2018 , 18, 4440-4446	11.5	41
194	A Small Cationic Organo-Copper Cluster as Thermally Robust Highly Photo- and Electroluminescent Material. <i>Journal of the American Chemical Society</i> , 2020 , 142, 373-381	16.4	41
193	Comparing Halide Ligands in PbS Colloidal Quantum Dots for Field-Effect Transistors and Solar Cells. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6882-6889	5.6	41
192	Direct Synthesis of Bulk Boron-Doped Graphitic Carbon. <i>Chemistry of Materials</i> , 2017 , 29, 3211-3218	9.6	40
191	Atomistic description of thiostannate-capped CdSe nanocrystals: retention of four-coordinate SnS ₄ motif and preservation of Cd-rich stoichiometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1862-74	16.4	40
190	Lead-Halide Scalar Couplings in Pb NMR of APbX Perovskites (A = Cs, Methylammonium, Formamidinium; X = Cl, Br, I). <i>Scientific Reports</i> , 2020 , 10, 8229	4.9	39
189	Scalable Heating-Up Synthesis of Monodisperse Cu ₂ ZnSnS ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 720-726	9.6	39
188	Colloidal Synthesis of InSb Nanocrystals with Controlled Polymorphism Using Indium and Antimony Amides. <i>Chemistry of Materials</i> , 2013 , 25, 1788-1792	9.6	39

187	Supramolecular Approach for Fine-Tuning of the Bright Luminescence from Zero-Dimensional Antimony(III) Halides 2020 , 2, 845-852		38
186	Binary superlattices from colloidal nanocrystals and giant polyoxometalate clusters. <i>Nano Letters</i> , 2013 , 13, 1699-705	11.5	38
185	Thermoelectric properties of semiconductor-metal composites produced by particle blending. <i>APL Materials</i> , 2016 , 4, 104813	5.7	38
184	Nanoprinted Quantum Dot Graphene Photodetectors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900019	8.1	37
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