

Liberato Manna

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#	Paper	IF	Citations
427	Shape control of CdSe nanocrystals. <i>Nature</i> , 2000 , 404, 59-61	50.4	3891
426	Synthesis of Soluble and Processable Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12700-12706	16.4	1619
425	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10276-81	16.4	1410
424	Controlled growth of tetrapod-branched inorganic nanocrystals. <i>Nature Materials</i> , 2003 , 2, 382-5	27	1290
423	Genesis, challenges and opportunities for colloidal lead halide perovskite nanocrystals. <i>Nature Materials</i> , 2018 , 17, 394-405	27	1074
422	Colloidal nanocrystal heterostructures with linear and branched topology. <i>Nature</i> , 2004 , 430, 190-5	50.4	1064
421	Linearly polarized emission from colloidal semiconductor quantum rods. <i>Science</i> , 2001 , 292, 2060-3	33.3	1026
420	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell: A General Route to Water Soluble Nanocrystals. <i>Nano Letters</i> , 2004 , 4, 703-707	11.5	930
419	Synthesis and micrometer-scale assembly of colloidal CdSe/CdS nanorods prepared by a seeded growth approach. <i>Nano Letters</i> , 2007 , 7, 2942-50	11.5	929
418	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
417	Synthesis, properties and perspectives of hybrid nanocrystal structures. <i>Chemical Society Reviews</i> , 2006 , 35, 1195-208	58.5	796
416	Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis Modifications, and Their Optical Properties. <i>Chemical Reviews</i> , 2019 , 119, 3296-3348	68.1	712
415	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1010-6	16.4	615
414	Water-soluble iron oxide nanocubes with high values of specific absorption rate for cancer cell hyperthermia treatment. <i>ACS Nano</i> , 2012 , 6, 3080-91	16.7	545
413	Metal-enhanced fluorescence of colloidal nanocrystals with nanoscale control. <i>Nature Nanotechnology</i> , 2006 , 1, 126-30	28.7	525
412	Epitaxial growth and photochemical annealing of graded CdS/ZnS shells on colloidal CdSe nanorods. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7136-45	16.4	513
411	Plasmonic copper sulfide nanocrystals exhibiting near-infrared photothermal and photodynamic therapeutic effects. <i>ACS Nano</i> , 2015 , 9, 1788-800	16.7	442

410	Forging Colloidal Nanostructures via Cation Exchange Reactions. <i>Chemical Reviews</i> , 2016 , 116, 10852-8768.1	432
409	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. <i>Nature Energy</i> , 2017 , 2,	62.3 407
408	Nearly Monodisperse Insulator CsPbX (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 1924-1930	11.5 378
407	Hierarchical self-assembly of suspended branched colloidal nanocrystals into superlattice structures. <i>Nature Materials</i> , 2011 , 10, 872-6	27 377
406	Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11175-80	16.4 375
405	From iron oxide nanoparticles towards advanced iron-based inorganic materials designed for biomedical applications. <i>Pharmacological Research</i> , 2010 , 62, 126-43	10.2 365
404	Continuous-wave biexciton lasing at room temperature using solution-processed quantum wells. <i>Nature Nanotechnology</i> , 2014 , 9, 891-5	28.7 359
403	Colloidal Synthesis of Quantum Confined Single Crystal CsPbBr ₃ Nanosheets with Lateral Size Control up to the Micrometer Range. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7240-3	16.4 355
402	Benzoyl Halides as Alternative Precursors for the Colloidal Synthesis of Lead-Based Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2656-2664	16.4 354
401	New materials for tunable plasmonic colloidal nanocrystals. <i>Chemical Society Reviews</i> , 2014 , 43, 3957-7558.5	335
400	On the development of colloidal nanoparticles towards multifunctional structures and their possible use for biological applications. <i>Small</i> , 2005 , 1, 48-63	11 322
399	Copper sulfide nanocrystals with tunable composition by reduction of covellite nanocrystals with Cu ⁺ ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17630-7	16.4 314
398	Subnanometer local temperature probing and remotely controlled drug release based on azo-functionalized iron oxide nanoparticles. <i>Nano Letters</i> , 2013 , 13, 2399-406	11.5 301
397	The Effect of Organic Ligand Binding on the Growth of CdSe Nanoparticles Probed by Ab Initio Calculations. <i>Nano Letters</i> , 2004 , 4, 2361-2365	11.5 285
396	17.6% stabilized efficiency in low-temperature processed planar perovskite solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 2365-2370	35.4 281
395	Semiconductor Nanorod Liquid Crystals. <i>Nano Letters</i> , 2002 , 2, 557-560	11.5 274
394	Sequential cation exchange in nanocrystals: preservation of crystal phase and formation of metastable phases. <i>Nano Letters</i> , 2011 , 11, 4964-70	11.5 264
393	Strongly Fluorescent Quaternary Cu _{1-x} In ₂ S ₂ Nanocrystals Prepared from Cu _{1-x} InS ₂ Nanocrystals by Partial Cation Exchange. <i>Chemistry of Materials</i> , 2012 , 24, 2400-2406	9.6 262

392	First-principles modeling of unpassivated and surfactant-passivated bulk facets of wurtzite CdSe: a model system for studying the anisotropic growth of CdSe nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6183-92	3.4	260
391	Role of Acid-Base Equilibria in the Size, Shape, and Phase Control of Cesium Lead Bromide Nanocrystals. <i>ACS Nano</i> , 2018 , 12, 1704-1711	16.7	259
390	Sequential Growth of Magic-Size CdSe Nanocrystals. <i>Advanced Materials</i> , 2007 , 19, 548-552	24	259
389	X-ray Lithography on Perovskite Nanocrystals Films: From Patterning with Anion-Exchange Reactions to Enhanced Stability in Air and Water. <i>ACS Nano</i> , 2016 , 10, 1224-30	16.7	257
388	Colloidal Synthesis of Double Perovskite CsAgInCl and Mn-Doped CsAgInCl Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12989-12995	16.4	251
387	Fluorescent Alloy CsPb Mn I Perovskite Nanocrystals with High Structural and Optical Stability. <i>ACS Energy Letters</i> , 2017 , 2, 2183-2186	20.1	224
386	Assembly of colloidal semiconductor nanorods in solution by depletion attraction. <i>Nano Letters</i> , 2010 , 10, 743-9	11.5	222
385	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
384	CdSe/CdS/ZnS double shell nanorods with high photoluminescence efficiency and their exploitation as biolabeling probes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2948-58	16.4	220
383	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3836-42	6.4	218
382	Selective growth of PbSe on one or both tips of colloidal semiconductor nanorods. <i>Nano Letters</i> , 2005 , 5, 445-9	11.5	216
381	Shape and Phase Control of Colloidal ZnSe Nanocrystals. <i>Chemistry of Materials</i> , 2005 , 17, 1296-1306	9.6	206
380	Phosphine-free synthesis of p-type copper(I) selenide nanocrystals in hot coordinating solvents. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8912-4	16.4	202
379	Tetrapod-shaped colloidal nanocrystals of II-VI semiconductors prepared by seeded growth. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2274-82	16.4	196
378	Heterodimers based on CoPt ₃ -Au nanocrystals with tunable domain size. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6690-8	16.4	194
377	In Situ Transmission Electron Microscopy Study of Electron Beam-Induced Transformations in Colloidal Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 2124-2132	16.7	187
376	Doped Halide Perovskite Nanocrystals for Reabsorption-Free Luminescent Solar Concentrators. <i>ACS Energy Letters</i> , 2017 , 2, 2368-2377	20.1	178
375	Colloidal Synthesis of Strongly Fluorescent CsPbBr Nanowires with Width Tunable down to the Quantum Confinement Regime. <i>Chemistry of Materials</i> , 2016 , 28, 6450-6454	9.6	177

374	Shape control and applications of nanocrystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 241-55; discussion 56-7	3	172
373	Semiconductor quantum rods as single molecule fluorescent biological labels. <i>Nano Letters</i> , 2007 , 7, 179-82	11.5	170
372	One-pot synthesis and characterization of size-controlled bimagnetic FePt-iron oxide heterodimer nanocrystals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1477-87	16.4	165
371	Determination of band offsets in heterostructured colloidal nanorods using scanning tunneling spectroscopy. <i>Nano Letters</i> , 2008 , 8, 2954-8	11.5	164
370	Plasmonic doped semiconductor nanocrystals: Properties, fabrication, applications and perspectives. <i>Physics Reports</i> , 2017 , 674, 1-52	27.7	163
369	Synthesis and Characterization of CdS Nanoclusters in a Quaternary Microemulsion: the Role of the Cosurfactant. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8391-8397	3.4	160
368	Zero-Dimensional Cesium Lead Halides: History, Properties, and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2326-2337	6.4	158
367	Multifunctional nanobeads based on quantum dots and magnetic nanoparticles: synthesis and cancer cell targeting and sorting. <i>ACS Nano</i> , 2011 , 5, 1109-21	16.7	157
366	Octapod-shaped colloidal nanocrystals of cadmium chalcogenides via "one-pot" cation exchange and seeded growth. <i>Nano Letters</i> , 2010 , 10, 3770-6	11.5	156
365	From Binary Cu ₂ S to ternary Cu-In-S and quaternary Cu-In-Zn-S nanocrystals with tunable composition via partial cation exchange. <i>ACS Nano</i> , 2015 , 9, 521-31	16.7	155
364	Multiple wurtzite twinning in CdTe nanocrystals induced by methylphosphonic acid. <i>Journal of the American Chemical Society</i> , 2006 , 128, 748-55	16.4	150
363	Topologically controlled growth of magnetic-metal-functionalized semiconductor oxide nanorods. <i>Nano Letters</i> , 2007 , 7, 1386-95	11.5	147
362	Postsynthesis Transformation of Insulating CsPbBr Nanocrystals into Bright Perovskite CsPbBr through Physical and Chemical Extraction of CsBr. <i>ACS Energy Letters</i> , 2017 , 2, 2445-2448	20.1	144
361	Cu Vacancies Boost Cation Exchange Reactions in Copper Selenide Nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9315-23	16.4	141
360	Plasmon dynamics in colloidal Cu ₂ Se nanocrystals. <i>Nano Letters</i> , 2011 , 11, 4711-7	11.5	140
359	The Many "Facets" of Halide Ions in the Chemistry of Colloidal Inorganic Nanocrystals. <i>Chemical Reviews</i> , 2018 , 118, 7804-7864	68.1	139
358	Faster energy transfer from blue-emitting polymers to colloidal CdSe/ZnS core shell quantum dots. <i>Applied Physics Letters</i> , 2004 , 85, 4169-4171	3.4	138
357	Epitaxial CdSe-Au nanocrystal heterostructures by thermal annealing. <i>Nano Letters</i> , 2010 , 10, 3028-36	11.5	136

356	Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. <i>Chemistry of Materials</i> , 2016 , 28, 2902-2906	9.6	136
355	Ultrafast electron-hole dynamics in core/shell CdSe/CdS dot/rod nanocrystals. <i>Nano Letters</i> , 2008 , 8, 4582-7	11.5	132
354	Colloidal synthesis and characterization of tetrapod-shaped magnetic nanocrystals. <i>Nano Letters</i> , 2006 , 6, 1966-72	11.5	132
353	Generalized One-Pot Synthesis of Copper Sulfide, Selenide-Sulfide, and Telluride-Sulfide Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 1442-1449	9.6	129
352	Shape Control of Colloidal Semiconductor Nanocrystals. <i>Journal of Cluster Science</i> , 2002 , 13, 521-532	3	127
351	Synthesis of uniform disk-shaped copper telluride nanocrystals and cation exchange to cadmium telluride quantum disks with stable red emission. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12270-8	16.4	124
350	Blue-UV-emitting ZnSe(dot)/ZnS(rod) core/shell nanocrystals prepared from CdSe/CdS nanocrystals by sequential cation exchange. <i>ACS Nano</i> , 2012 , 6, 1637-47	16.7	124
349	Water solubilization of hydrophobic nanocrystals by means of poly(maleic anhydride-alt-1-octadecene). <i>Journal of Materials Chemistry</i> , 2008 , 18, 1991		123
348	Temperature and Size Dependence of Nonradiative Relaxation and Exciton-Phonon Coupling in Colloidal CdTe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5846-5849	3.8	122
347	CoxFe ₃ □O ₄ Nanocubes for Theranostic Applications: Effect of Cobalt Content and Particle Size. <i>Chemistry of Materials</i> , 2016 , 28, 1769-1780	9.6	120
346	Physical properties of elongated inorganic nanoparticles. <i>Physics Reports</i> , 2011 , 501, 75-221	27.7	118
345	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. <i>Chemistry of Materials</i> , 2017 , 29, 4167-4171	9.6	117
344	Efficient, fast and reabsorption-free perovskite nanocrystal-based sensitized plastic scintillators. <i>Nature Nanotechnology</i> , 2020 , 15, 462-468	28.7	112
343	Lasing in self-assembled microcavities of CdSe/CdS core/shell colloidal quantum rods. <i>Nanoscale</i> , 2010 , 2, 931-5	7.7	110
342	Emissive Bi-Doped Double Perovskite Cs ₂ Ag _{1-x} NaxInCl ₆ Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 1976-1982	10.8	109
341	Alloyed copper chalcogenide nanoplatelets via partial cation exchange reactions. <i>ACS Nano</i> , 2014 , 8, 8407-18	16.7	109
340	Fluorescent asymmetrically cobalt-tipped CdSe@CdS core@shell nanorod heterostructures exhibiting room-temperature ferromagnetic behavior. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12817-28	16.4	109
339	Cu P Nanocrystals as a Material Platform for Near-Infrared Plasmonics and Cation Exchange Reactions. <i>Chemistry of Materials</i> , 2015 , 27, 1120-1128	9.6	108

338	One pot synthesis of monodisperse water soluble iron oxide nanocrystals with high values of the specific absorption rate. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4426-4434	7.3	107
337	Single-mode tunable laser emission in the single-exciton regime from colloidal nanocrystals. <i>Nature Communications</i> , 2013 , 4, 2376	17.4	106
336	End-to-End Assembly of Shape-Controlled Nanocrystals via a Nanowelding Approach Mediated by Gold Domains. <i>Advanced Materials</i> , 2009 , 21, 550-4	24	106
335	Polarized light emitting diode by long-range nanorod self-assembling on a water surface. <i>ACS Nano</i> , 2009 , 3, 1506-12	16.7	106
334	Cation exchange reactions in colloidal branched nanocrystals. <i>ACS Nano</i> , 2011 , 5, 7176-83	16.7	102
333	White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. <i>Journal of Applied Physics</i> , 2005 , 97, 113501	2.5	100
332	Selective reactions on the tips of colloidal semiconductor nanorods. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3952		100
331	A sustainable future for photonic colloidal nanocrystals. <i>Chemical Society Reviews</i> , 2015 , 44, 5897-914	58.5	99
330	Resurfacing halide perovskite nanocrystals. <i>Science</i> , 2019 , 364, 833-834	33.3	98
329	Simultaneous Cationic and Anionic Ligand Exchange For Colloidally Stable CsPbBr ₃ Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 819-824	20.1	97
328	What Defines a Halide Perovskite?. <i>ACS Energy Letters</i> , 2020 , 5, 604-610	20.1	95
327	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14878-14886	16.4	94
326	Colloidal CuFeS Nanocrystals: Intermediate Fe d-Band Leads to High Photothermal Conversion Efficiency. <i>Chemistry of Materials</i> , 2016 , 28, 4848-4858	9.6	93
325	Sn cation valency dependence in cation exchange reactions involving Cu(2-x)Se nanocrystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16277-84	16.4	92
324	Understanding the Plasmon Resonance in Ensembles of Degenerately Doped Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12226-12231	3.8	92
323	Tuning the Lattice Parameter of In _x Zn _y P for Highly Luminescent Lattice-Matched Core/Shell Quantum Dots. <i>ACS Nano</i> , 2016 , 10, 4754-62	16.7	91
322	Colloidal branched semiconductor nanocrystals: state of the art and perspectives. <i>Accounts of Chemical Research</i> , 2013 , 46, 1387-96	24.3	89
321	Fluorescent-magnetic hybrid nanostructures: preparation, properties, and applications in biology. <i>IEEE Transactions on Nanobioscience</i> , 2007 , 6, 298-308	3.4	89

320	Shape-Pure, Nearly Monodispersed CsPbBr Nanocubes Prepared Using Secondary Aliphatic Amines. <i>Nano Letters</i> , 2018 , 18, 7822-7831	11.5	88
319	Reversible Wettability Changes in Colloidal TiO ₂ Nanorod Thin-Film Coatings under Selective UV Laser Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 701-714	3.8	87
318	Multifunctional nanostructures based on inorganic nanoparticles and oligothiophenes and their exploitation for cellular studies. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10545-55	16.4	84
317	From CsPbBr Nano-Inks to Sintered CsPbBr-CsPbBr Films via Thermal Annealing: Implications on Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11956-11961	3.8	82
316	Bright-Emitting Perovskite Films by Large-Scale Synthesis and Photoinduced Solid-State Transformation of CsPbBr Nanoplatelets. <i>ACS Nano</i> , 2017 , 11, 10206-10213	16.7	82
315	Size-tunable, hexagonal plate-like Cu ₃ P and Janus-like Cu-Cu ₃ P nanocrystals. <i>ACS Nano</i> , 2012 , 6, 32-41	16.7	82
314	In situ microscopy of the self-assembly of branched nanocrystals in solution. <i>Nature Communications</i> , 2016 , 7, 11213	17.4	81
313	Suppression of biexciton auger recombination in CdSe/CdS dot/rods: role of the electronic structure in the carrier dynamics. <i>Nano Letters</i> , 2010 , 10, 3142-50	11.5	81
312	Dual Band Electrochromic Devices Based on Nb-Doped TiO Nanocrystalline Electrodes. <i>ACS Nano</i> , 2017 , 11, 3576-3584	16.7	79
311	Self-assembled multilayers of vertically aligned semiconductor nanorods on device-scale areas. <i>Advanced Materials</i> , 2011 , 23, 2205-9	24	77
310	Role of Nonradiative Defects and Environmental Oxygen on Exciton Recombination Processes in CsPbBr Perovskite Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 3844-3853	11.5	76
309	Blue light emitting diodes based on fluorescent CdSe/ZnS nanocrystals. <i>Applied Physics Letters</i> , 2007 , 90, 051106	3.4	76
308	Nanoscale Transformations in Covellite (CuS) Nanocrystals in the Presence of Divalent Metal Cations in a Mild Reducing Environment. <i>Chemistry of Materials</i> , 2015 , 27, 7531-7537	9.6	75
307	Synthesis of highly luminescent wurtzite CdSe/CdS giant-shell nanocrystals using a fast continuous injection route. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3439	7.1	75
306	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 506-516	9.6	74
305	Alkyl Phosphonic Acids Deliver CsPbBr ₃ Nanocrystals with High Photoluminescence Quantum Yield and Truncated Octahedron Shape. <i>Chemistry of Materials</i> , 2019 , 31, 9140-9147	9.6	73
304	Hollow and Porous Nickel Cobalt Perselenide Nanostructured Microparticles for Enhanced Electrocatalytic Oxygen Evolution. <i>Chemistry of Materials</i> , 2017 , 29, 7032-7041	9.6	73
303	Squeezing terahertz light into nanovolumes: nanoantenna enhanced terahertz spectroscopy (NETS) of semiconductor quantum dots. <i>Nano Letters</i> , 2015 , 15, 386-91	11.5	71

302	Photoconduction properties in aligned assemblies of colloidal CdSe/CdS nanorods. <i>ACS Nano</i> , 2010 , 4, 1646-52	16.7	70
301	Ultrafast carrier dynamics in core and core/shell CdSe quantum rods: Role of the surface and interface defects. <i>Physical Review B</i> , 2005 , 72,	3.3	70
300	Colloidal Monolayer InSe Nanosheets with High Photoresponsivity. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3005-3011	16.4	67
299	Binder-free graphene as an advanced anode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6886-6895	13	67
298	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2205-17	16.4	67
297	Assembly-mediated interplay of dipolar interactions and surface spin disorder in colloidal maghemite nanoclusters. <i>Nanoscale</i> , 2014 , 6, 3764-76	7.7	66
296	Colloidal Cu ₂ (S _y Se _{1-y}) alloy nanocrystals with controllable crystal phase: synthesis, plasmonic properties, cation exchange and electrochemical lithiation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13023		65
295	Room temperature-dipolelike single photon source with a colloidal dot-in-rod. <i>Applied Physics Letters</i> , 2010 , 96, 033101	3.4	65
294	Ligand exchange of CdSe nanocrystals probed by optical spectroscopy in the visible and mid-IR. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2728		64
293	Magnetic-fluorescent colloidal nanobeads: preparation and exploitation in cell separation experiments. <i>Macromolecular Bioscience</i> , 2009 , 9, 952-8	5.5	63
292	Colloidal synthesis of cuprite (Cu ₂ O) octahedral nanocrystals and their electrochemical lithiation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2745-51	9.5	62
291	Role of the Crystal Structure in Cation Exchange Reactions Involving Colloidal CuSe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9583-9590	16.4	61
290	High-Efficiency All-Solution-Processed Light-Emitting Diodes Based on Anisotropic Colloidal Heterostructures with Polar Polymer Injecting Layers. <i>Nano Letters</i> , 2015 , 15, 5455-64	11.5	61
289	Single-mode lasing from colloidal water-soluble CdSe/CdS quantum dot-in-rods. <i>Small</i> , 2015 , 11, 1328-34	11	61
288	Nonlinear Carrier Interactions in Lead Halide Perovskites and the Role of Defects. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13604-13611	16.4	61
287	Assembly of shape-controlled nanocrystals by depletion attraction. <i>Chemical Communications</i> , 2011 , 47, 203-5	5.8	60
286	Trap-Mediated Two-Step Sensitization of Manganese Dopants in Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019 , 4, 85-93	20.1	60
285	CuIn _x Ga _{1-x} S ₂ Nanocrystals with Tunable Composition and Band Gap Synthesized via a Phosphine-Free and Scalable Procedure. <i>Chemistry of Materials</i> , 2013 , 25, 3180-3187	9.6	59

284	Intrinsic optical nonlinearity in colloidal seeded grown CdSe/CdS nanostructures: Photoinduced screening of the internal electric field. <i>Physical Review B</i> , 2008 , 78,	3.3	59
283	Elastomeric Nanocomposite Foams for the Removal of Heavy Metal Ions from Water. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14778-84	9.5	58
282	Direct Synthesis of Carbon-Doped TiO ₂ -Bronze Nanowires as Anode Materials for High Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25139-46	9.5	58
281	Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe ₃ S ₄) Nanoplatelets. <i>Chemistry of Materials</i> , 2011 , 23, 3762-3768	9.6	57
280	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. <i>Physical Review Letters</i> , 2019 , 122, 166601	7.4	56
279	Direct determination of polarity, faceting, and core location in colloidal core/shell wurtzite semiconductor nanocrystals. <i>ACS Nano</i> , 2012 , 6, 6453-61	16.7	56
278	Influence of chloride ions on the synthesis of colloidal branched CdSe/CdS nanocrystals by seeded growth. <i>ACS Nano</i> , 2012 , 6, 11088-96	16.7	55
277	Improved Photovoltaic Performance of Heterostructured Tetrapod-Shaped CdSe/CdTe Nanocrystals Using C60 Interlayer. <i>Advanced Materials</i> , 2009 , 21, 4461-4466	24	55
276	Fabrication and spectroscopic studies on highly luminescent CdSe/CdS nanorod polymer composites. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 94-100	3	55
275	Evolution of CsPbBr ₃ nanocrystals upon post-synthesis annealing under an inert atmosphere. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9179-9182	7.1	54
274	Ordered two-dimensional superstructures of colloidal octapod-shaped nanocrystals on flat substrates. <i>Nano Letters</i> , 2012 , 12, 5299-303	11.5	53
273	Large scale syntheses of colloidal nanomaterials. <i>Nano Today</i> , 2017 , 12, 46-63	17.9	51
272	Post-Synthesis Incorporation of ¹²⁵ Iu in CuS Nanocrystals to Radiolabel Photothermal Probes: A Feasible Approach for Clinics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15145-51	16.4	51
271	Planar Double-Epsilon-Near-Zero Cavities for Spontaneous Emission and Purcell Effect Enhancement. <i>ACS Photonics</i> , 2018 , 5, 2287-2294	6.3	51
270	Thermal Stability and Anisotropic Sublimation of Two-Dimensional Colloidal Bi ₂ Te ₃ and Bi ₂ Se ₃ Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 4217-23	11.5	51
269	CO oxidation on colloidal Au(0.80)Pd(0.20)-Fe(x)O(y) dumbbell nanocrystals. <i>Nano Letters</i> , 2013 , 13, 752-755	11.5	51
268	Influence of the Ion Coordination Number on Cation Exchange Reactions with Copper Telluride Nanocrystals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7082-90	16.4	50
267	Lead-Free Double Perovskite Cs AgInCl. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11592-11603	16.4	50

266	Stable Ligand Coordination at the Surface of Colloidal CsPbBr Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3715-3726	6.4	49
265	Fully Inorganic Ruddlesden-Popper Double Cl-I and Triple Cl-Br-I Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 2182-2190	9.6	49
264	Acidic pH-responsive nanogels as smart cargo systems for the simultaneous loading and release of short oligonucleotides and magnetic nanoparticles. <i>Langmuir</i> , 2010 , 26, 10315-24	4	49
263	Band structure engineering via piezoelectric fields in strained anisotropic CdSe/CdS nanocrystals. <i>Nature Communications</i> , 2015 , 6, 7905	17.4	48
262	Green-Emitting Powders of Zero-Dimensional CsPbBr: Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. <i>Chemistry of Materials</i> , 2019 , 31, 7761-7769	9.6	47
261	Selective cation exchange in the core region of Cu _{2-x} Se/Cu _{2-x} S core/shell nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12195-8	16.4	47
260	Effect of Core/Shell Interface on Carrier Dynamics and Optical Gain Properties of Dual-Color Emitting CdSe/CdS Nanocrystals. <i>ACS Nano</i> , 2016 , 10, 6877-87	16.7	47
259	Etched colloidal LiFePO ₄ nanoplatelets toward high-rate capable Li-ion battery electrodes. <i>Nano Letters</i> , 2014 , 14, 6828-35	11.5	47
258	Colloidal Ordered Assemblies in a Polymer Shell: A Novel Type of Magnetic Nanobeads for Theranostic Applications. <i>Chemistry of Materials</i> , 2013 , 25, 1055-1062	9.6	47
257	Low-Temperature Electron Beam-Induced Transformations of Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Omega</i> , 2017 , 2, 5660-5665	3.9	47
256	Synthesis and biological assay of GSH functionalized fluorescent quantum dots for staining <i>Hydra vulgaris</i> . <i>Bioconjugate Chemistry</i> , 2007 , 18, 829-35	6.3	47
255	Ga for Zn Cation Exchange Allows for Highly Luminescent and Photostable InZnP-Based Quantum Dots. <i>Chemistry of Materials</i> , 2017 , 29, 5192-5199	9.6	46
254	Growth of colloidal nanoparticles of group II/VI and IV/VI semiconductors on top of magnetic iron-platinum nanocrystals. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4311		46
253	Investigation into the Photoluminescence Red Shift in Cesium Lead Bromide Nanocrystal Superlattices. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 655-660	6.4	45
252	Nanoscale Transformations of Alumina-Supported AuCu Ordered Phase Nanocrystals and Their Activity in CO Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 2154-2163	13.1	45
251	-Methylformamide as a Source of Methylammonium Ions in the Synthesis of Lead Halide Perovskite Nanocrystals and Bulk Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1042-1048	20.1	45
250	Redox centers evolution in phospho-olivine type (LiFe _{0.5} Mn _{0.5} PO ₄) nanoplatelets with uniform cation distribution. <i>Nano Letters</i> , 2014 , 14, 1477-83	11.5	45
249	Confined optical phonon modes in aligned nanorod arrays detected by resonant inelastic light scattering. <i>Nano Letters</i> , 2007 , 7, 476-9	11.5	44

248	Picosecond Photoluminescence Decay Time in Colloidal Nanocrystals: The Role of Intrinsic and Surface States. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10541-10545	3.8	44
247	Exciton relaxation processes in colloidal core/shell ZnSe/ZnS nanocrystals. <i>Applied Physics Letters</i> , 2003 , 82, 418-420	3.4	44
246	Temperature-Driven Transformation of CsPbBr Nanoplatelets into Mosaic Nanotiles in Solution through Self-Assembly. <i>Nano Letters</i> , 2020 , 20, 1808-1818	11.5	43
245	Colloidal CsX (X = Cl, Br, I) Nanocrystals and Their Transformation to CsPbX Nanocrystals by Cation Exchange. <i>Chemistry of Materials</i> , 2018 , 30, 79-83	9.6	43
244	Reversible Concentration-Dependent Photoluminescence Quenching and Change of Emission Color in CsPbBr Nanowires and Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2725-2729	6.4	42
243	Magnetic properties of novel superparamagnetic MRI contrast agents based on colloidal nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e320-e323	2.8	42
242	Optical properties of tetrapod-shaped CdTe nanocrystals. <i>Applied Physics Letters</i> , 2005 , 87, 224101	3.4	42
241	Charge transport in nanoscale "all-inorganic" networks of semiconductor nanorods linked by metal domains. <i>ACS Nano</i> , 2012 , 6, 2940-7	16.7	41
240	Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO ₄ . <i>Nano Energy</i> , 2015 , 16, 256-267	17.1	40
239	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO ₄ with Ca(2). <i>Nano Letters</i> , 2016 , 16, 2692-7	11.5	40
238	Self-assembly of octapod-shaped colloidal nanocrystals into a hexagonal ballerina network embedded in a thin polymer film. <i>Nano Letters</i> , 2014 , 14, 1056-63	11.5	40
237	Fe Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. <i>Nano Letters</i> , 2018 , 18, 6856-6866	11.5	40
236	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu ₂ Se Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3337-3344	6.4	39
235	Self-assembled CdSe/CdS nanorod micro-lasers fabricated from solution by capillary jet deposition. <i>Laser and Photonics Reviews</i> , 2012 , 6, 678-683	8.3	39
234	Colloidal PbTe/Au nanocrystal heterostructures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1357-1366		39
233	Two-photon-induced blue shift of core and shell optical transitions in colloidal CdSe/CdS quasi-type II quantum rods. <i>ACS Nano</i> , 2013 , 7, 2443-52	16.7	38
232	Chemically induced self-assembly of spherical and anisotropic inorganic nanocrystals. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16694		38
231	Role of the shell thickness in stimulated emission and photoinduced absorption in CdSe core/shell nanorods. <i>Physical Review B</i> , 2006 , 73,	3.3	38

230	Transforming colloidal CsPbBr nanocrystals with poly(maleic anhydride-1-octadecene) into stable CsPbBr perovskite emitters through intermediate heterostructures. <i>Chemical Science</i> , 2020 , 11, 3986-3995	9.4	37
229	Mobility and Spatial Distribution of Photoexcited Electrons in CdSe/CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3146-3151	3.8	37
228	Fully Solution-Processed Conductive Films Based on Colloidal Copper Selenide Nanosheets for Flexible Electronics. <i>Advanced Functional Materials</i> , 2016 , 26, 3670-3677	15.6	37
227	Self-assembly of highly fluorescent semiconductor nanorods into large scale smectic liquid crystal structures by coffee stain evaporation dynamics. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 264013	1.8	36
226	Stable and Size Tunable CsPbBr Nanocrystals Synthesized with Oleylphosphonic Acid. <i>Nano Letters</i> , 2020 , 20, 8847-8853	11.5	36
225	Tuning and Locking the Localized Surface Plasmon Resonances of CuS (Covellite) Nanocrystals by an Amorphous CuPd S Shell. <i>Chemistry of Materials</i> , 2017 , 29, 1716-1723	9.6	34
224	The effect of Au domain size on the CO oxidation catalytic activity of colloidal Au@FeOx dumbbell-like heterodimers. <i>Journal of Catalysis</i> , 2016 , 338, 115-123	7.3	34
223	In situ LiFePO4 nano-particles grown on few-layer graphene flakes as high-power cathode nano-hybrids for lithium-ion batteries. <i>Nano Energy</i> , 2018 , 51, 656-667	17.1	34
222	Nanocrystal film patterning by inhibiting cation exchange via electron-beam or X-ray lithography. <i>Nano Letters</i> , 2014 , 14, 2116-22	11.5	34
221	Two-dimensional photonic crystal resist membrane nanocavity embedding colloidal dot-in-a-rod nanocrystals. <i>Nano Letters</i> , 2008 , 8, 260-4	11.5	34
220	Confinement effects on optical phonons in polar tetrapod nanocrystals detected by resonant inelastic light scattering. <i>Nano Letters</i> , 2006 , 6, 478-82	11.5	34
219	Electron-hole dynamics in CdTe tetrapods. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17334-8	3.4	34
218	Ultrafast Photodoping and Plasmon Dynamics in Fluorine-Indium Codoped Cadmium Oxide Nanocrystals for All-Optical Signal Manipulation at Optical Communication Wavelengths. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3873-3881	6.4	33
217	Colloidal CdSe/Cu3P/CdSe nanocrystal heterostructures and their evolution upon thermal annealing. <i>ACS Nano</i> , 2013 , 7, 3997-4005	16.7	32
216	Amplified spontaneous emission from core and shell transitions in CdSe/CdS nanorods fabricated by seeded growth. <i>Applied Physics Letters</i> , 2011 , 98, 063105	3.4	32
215	Rod-shaped nanocrystals elicit neuronal activity in vivo. <i>Small</i> , 2008 , 4, 1747-55	11	32
214	Directional Anisotropy of the Vibrational Modes in 2D-Layered Perovskites. <i>ACS Nano</i> , 2020 , 14, 4689-4697	10.7	32
213	Compositional Tuning of Carrier Dynamics in CsNa Ag BiCl Double-Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2020 , 5, 1840-1847	20.1	31

212	Chemical transformation of Au-tipped CdS nanorods into AuS/Cd core/shell particles by electron beam irradiation. <i>Nano Letters</i> , 2011 , 11, 4555-61	11.5	31
211	Broadband Defects Emission and Enhanced Ligand Raman Scattering in 0D Cs ₃ Bi ₂ I ₉ Colloidal Nanocrystals. <i>Advanced Functional Materials</i> , 2019 , 29, 1805299	15.6	31
210	Plasmon bleaching dynamics in colloidal gold-iron oxide nanocrystal heterodimers. <i>Nano Letters</i> , 2012 , 12, 921-6	11.5	30
209	Dots in rods as polarized single photon sources. <i>Superlattices and Microstructures</i> , 2010 , 47, 165-169	2.8	30
208	Fluorescence enhancement in colloidal semiconductor nanocrystals by metallic nanopatterns. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 187-192	8.5	30
207	Sb-Doped Metal Halide Nanocrystals: A 0D versus 3D Comparison. <i>ACS Energy Letters</i> , 2021 , 6, 2283-2292	20.1	29
206	Low-Temperature Molten Salts Synthesis: CsPbBr Nanocrystals with High Photoluminescence Emission Buried in Mesoporous SiO ₂ . <i>ACS Energy Letters</i> , 2021 , 6, 900-907	20.1	29
205	Mechanochemical synthesis of inorganic halide perovskites: evolution of phase-purity, morphology, and photoluminescence. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11406-11410	7.1	28
204	Plasmon dynamics in colloidal Au ₁₀₀ Ag alloy-CdSe core/shell nanocrystals. <i>ACS Nano</i> , 2013 , 7, 1045-53	16.7	28
203	AuCu alloy nanoparticles supported on SiO ₂ : Impact of redox pretreatments in the catalyst performance in CO oxidation. <i>Catalysis Today</i> , 2017 , 282, 105-110	5.3	28
202	Atomic Ligand Passivation of Colloidal Nanocrystal Films via their Reaction with Propyltrichlorosilane. <i>Chemistry of Materials</i> , 2013 , 25, 1423-1429	9.6	28
201	Phototransport in networks of tetrapod-shaped colloidal semiconductor nanocrystals. <i>Nanoscale</i> , 2010 , 2, 2171-9	7.7	28
200	Hollow and concave nanoparticles via preferential oxidation of the core in colloidal core/shell nanocrystals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9061-9	16.4	27
199	Optically induced light modulation in an hybrid nanocomposite system of inorganic CdSe/CdS nanorods and nematic liquid crystals. <i>Optical Materials</i> , 2010 , 32, 1011-1016	3.3	27
198	Molecular Iodine for a General Synthesis of Binary and Ternary Inorganic and Hybrid Organic-Inorganic Iodide Nanocrystals. <i>Chemistry of Materials</i> , 2018 , 30, 6915-6921	9.6	27
197	O ₂ as a molecular probe for nonradiative surface defects in CsPbBr ₃ perovskite nanostructures and single crystals. <i>Nanoscale</i> , 2019 , 11, 7613-7623	7.7	26
196	The Crucial Role of the Support in the Transformations of Bimetallic Nanoparticles and Catalytic Performance. <i>ACS Catalysis</i> , 2018 , 8, 1031-1037	13.1	26
195	Ultrathin Orthorhombic PbS Nanosheets. <i>Chemistry of Materials</i> , 2019 , 31, 8145-8153	9.6	25

194	Bright Blue Emitting Cu-Doped CsZnCl Colloidal Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 5897-5903	6	25
193	Composition-, Size-, and Surface Functionalization-Dependent Optical Properties of Lead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2079-2085	6.4	25
192	Superlattices are Greener on the Other Side: How Light Transforms Self-Assembled Mixed Halide Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2020 , 5, 1465-1473	20.1	24
191	Gold-iron oxide dimers for magnetic hyperthermia: the key role of chloride ions in the synthesis to boost the heating efficiency. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4587-4594	7.3	23
190	Writing on Nanocrystals: Patterning Colloidal Inorganic Nanocrystal Films through Irradiation-Induced Chemical Transformations of Surface Ligands. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13250-13259	16.4	23
189	Quasi-Static Resonances in the Visible Spectrum from All-Dielectric Intermediate Band Semiconductor Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 7691-7695	11.5	23
188	Halide Perovskite-Lead Chalcohalide Nanocrystal Heterostructures. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1435-1446	16.4	23
187	Pyramid-Shaped Wurtzite CdSe Nanocrystals with Inverted Polarity. <i>ACS Nano</i> , 2015 , 9, 8537-46	16.7	22
186	Understanding and tailoring ligand interactions in the self-assembly of branched colloidal nanocrystals into planar superlattices. <i>Nature Communications</i> , 2018 , 9, 1141	17.4	22
185	Three-dimensional coherent diffractive imaging on non-periodic specimens at the ESRF beamline ID10. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 594-9	2.4	22
184	Tic-Tac-Toe Binary Lattices from the Interfacial Self-Assembly of Branched and Spherical Nanocrystals. <i>ACS Nano</i> , 2016 , 10, 4345-53	16.7	22
183	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020 , 5, 642-649	20.1	21
182	Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 835-839	20.1	21
181	Generating plasmonic heterostructures by cation exchange and redox reactions of covellite CuS nanocrystals with Au ions. <i>Nanoscale</i> , 2018 , 10, 2781-2789	7.7	21
180	Wide-Angle X-ray Diffraction Evidence of Structural Coherence in CsPbBr Nanocrystal Superlattices 2019 , 1, 272-276		21
179	Laser-Induced Localized Growth of Methylammonium Lead Halide Perovskite Nano- and Microcrystals on Substrates. <i>Advanced Functional Materials</i> , 2017 , 27, 1701613	15.6	21
178	Thermally induced structural and morphological changes of CdSe/CdS octapods. <i>Small</i> , 2012 , 8, 937-42	11	21
177	Locating and Controlling the Zn Content in In(Zn)P Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 557-565	6.5	21

176	Lateral epitaxial heterojunctions in single nanowires fabricated by masked cation exchange. <i>Nature Communications</i> , 2018 , 9, 505	17.4	20
175	Cu ₂ Se and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation Exchange. <i>ACS Nano</i> , 2016 , 10, 2406-14	16.7	20
174	A superbright X-ray laboratory microsource empowered by a novel restoration algorithm. <i>Journal of Applied Crystallography</i> , 2012 , 45, 1228-1235	3.8	20
173	Optical and electrical properties of colloidal (spherical Au)-(spinel ferrite nanorod) heterostructures. <i>Nanoscale</i> , 2011 , 3, 4647-54	7.7	20
172	Colloidal Synthesis of Bipolar Off-Stoichiometric Gallium Iron Oxide Spinel-Type Nanocrystals with Near-IR Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1198-1206	16.4	19
171	Bragg extraction of light in 2D photonic Thue-Morse quasicrystals patterned in active CdSe/CdS nanorod-polymer nanocomposites. <i>Nanoscale</i> , 2013 , 5, 331-6	7.7	19
170	Spinning nanorods--active optical manipulation of semiconductor nanorods using polarised light. <i>Nanoscale</i> , 2012 , 4, 3693-7	7.7	19
169	Improved photovoltaic performance of bilayer heterojunction photovoltaic cells by triplet materials and tetrapod-shaped colloidal nanocrystals doping. <i>Applied Physics Letters</i> , 2009 , 95, 043101	3.4	19
168	The Role of Intrinsic and Surface States on the Emission Properties of Colloidal CdSe and CdSe/ZnS Quantum Dots. <i>Nanoscale Research Letters</i> , 2007 , 2, 512-514	5	19
167	Probe tips functionalized with colloidal nanocrystal tetrapods for high-resolution atomic force microscopy imaging. <i>Small</i> , 2008 , 4, 2123-6	11	19
166	Colloidal Bi-Doped CsAg Na InCl Nanocrystals: Undercoordinated Surface Cl Ions Limit their Light Emission Efficiency 2020 , 2, 1442-1449		19
165	"Quantized" Doping of Individual Colloidal Nanocrystals Using Size-Focused Metal Quantum Clusters. <i>ACS Nano</i> , 2017 , 11, 6233-6242	16.7	18
164	Octapod-Shaped CdSe Nanocrystals Hosting Pt with High Mass Activity for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2020 , 32, 2420-2429	9.6	18
163	Self-Assembled Dense Colloidal Cu ₂ Te Nanodisk Networks in P3HT Thin Films with Enhanced Photocurrent. <i>Advanced Functional Materials</i> , 2016 , 26, 4535-4542	15.6	18
162	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15464-15470	16.4	18
161	Ultrafast Exciton Dynamics in Colloidal CdSe/CdS Octapod Shaped Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9005-9011	3.8	18
160	Self-assembly of amphiphilic nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4282-3	16.4	18
159	Fluorescence resonance energy transfer induced by conjugation of metalloproteins to nanoparticles. <i>Chemical Physics Letters</i> , 2006 , 417, 351-357	2.5	18

158	Hidden in Plain Sight: The Overlooked Influence of the Cs ⁺ Substructure on Transformations in Cesium Lead Halide Nanocrystals. <i>ACS Energy Letters</i> , 2020 , 5, 3409-3414	20.1	18
157	Alloy CsCd Pb Br Perovskite Nanocrystals: The Role of Surface Passivation in Preserving Composition and Blue Emission. <i>Chemistry of Materials</i> , 2020 , 32, 10641-10652	9.6	18
156	NiCoS ₂ Alloy Nanocrystals: Influence of the Composition on Their in Situ Transformation and Electrocatalytic Activity for the Oxygen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5753-5762	5.6	18
155	Relevance of LiPF ₆ as Etching Agent of LiMnPO ₄ Colloidal Nanocrystals for High Rate Performing Li-ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4069-75	9.5	17
154	Ruthenium-Decorated Cobalt Selenide Nanocrystals for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5695-5703	5.6	17
153	Temperature and Size Dependence of the Optical Properties of Tetrapod-Shaped Colloidal Nanocrystals Exhibiting Type-II Transitions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18094-18104	3.8	17
152	Ultrafast carrier dynamics in gold/iron-oxide nanocrystal heterodimers. <i>Applied Physics Letters</i> , 2011 , 99, 011907	3.4	17
151	Birth and Growth of Octapod-Shaped Colloidal Nanocrystals Studied by Electron Tomography. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20128-20133	3.8	17
150	Simple fabrication of layered halide perovskite platelets and enhanced photoluminescence from mechanically exfoliated flakes. <i>Nanoscale</i> , 2019 , 11, 8334-8342	7.7	16
149	Ab Initio Structure Determination of CuTe Plasmonic Nanocrystals by Precession-Assisted Electron Diffraction Tomography and HAADF-STEM Imaging. <i>Inorganic Chemistry</i> , 2018 , 57, 10241-10248	5.1	16
148	Dumbbell-like AuCu@FeO Nanocrystals: Synthesis, Characterization, and Catalytic Activity in CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28624-28632	9.5	16
147	Metamorphoses of Cesium Lead Halide Nanocrystals. <i>Accounts of Chemical Research</i> , 2021 , 54, 498-508	24.3	16
146	Developing Lattice Matched ZnMgSe Shells on InZnP Quantum Dots for Phosphor Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3859-3867	5.6	15
145	Iron Oxide Colloidal Nanoclusters as Theranostic Vehicles and Their Interactions at the Cellular Level. <i>Nanomaterials</i> , 2018 , 8,	5.4	15
144	Oxygen sensitivity of atomically passivated CdS nanocrystal films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9517-23	9.5	15
143	Charge separation in Pt-decorated CdSe@CdS octapod nanocrystals. <i>Nanoscale</i> , 2014 , 6, 2238-43	7.7	15
142	Materials science. A roadmap for the assembly of polyhedral particles. <i>Science</i> , 2012 , 337, 417-8	33.3	15
141	Aging of Self-Assembled Lead Halide Perovskite Nanocrystal Superlattices: Effects on Photoluminescence and Energy Transfer. <i>ACS Nano</i> , 2021 , 15, 650-664	16.7	15

140	Multilayer Diffraction Reveals That Colloidal Superlattices Approach the Structural Perfection of Single Crystals. <i>ACS Nano</i> , 2021 , 15, 6243-6256	16.7	15
139	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10198-10211	16.4	14
138	In Situ Dynamic Nanostructuring of the Cu-Ti Catalyst-Support System Promotes Hydrogen Evolution under Alkaline Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29583-29592	9.5	14
137	Physical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013 ,	0.6	14
136	Phase diagram of octapod-shaped nanocrystals in a quasi-two-dimensional planar geometry. <i>Journal of Chemical Physics</i> , 2013 , 138, 154504	3.9	14
135	Confinement effects on optical phonons in spherical, rod-, and tetrapod-shaped nanocrystals detected by Raman spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 483-486	1.6	14
134	High Q-factor colloidal nanocrystal-based vertical microcavity by hot embossing technology. <i>Applied Physics Letters</i> , 2006 , 88, 181108	3.4	14
133	Solid State Intercalation, Deintercalation, and Cation Exchange in Colloidal 2D Bi ₂ Se ₃ and Bi ₂ Te ₃ Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 1419-1429	9.6	13
132	Hollow Iron Oxide Nanoparticles in Polymer Nanobeads as MRI Contrast Agents. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6246-6253	3.8	13
131	CsPbX/SiO (X = Cl, Br, I) monoliths prepared via a novel sol-gel route starting from CsPbX nanocrystals. <i>Nanoscale</i> , 2019 , 11, 18739-18745	7.7	13
130	Switchable Anion Exchange in Polymer-Encapsulated APbX Nanocrystals Delivers Stable All-Perovskite White Emitters. <i>ACS Energy Letters</i> , 2021 , 6, 2844-2853	20.1	13
129	Tunable Near-Infrared Localized Surface Plasmon Resonance of F, In-Codoped CdO Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39921-39929	9.5	12
128	Nanosized, Hollow, and Mn-Doped CeO ₂ /SiO ₂ Catalysts via Galvanic Replacement: Preparation, Characterization, and Application as Highly Active Catalysts. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1438-1443	5.6	12
127	Metal-support interaction in catalysis: The influence of the morphology of a nano-oxide domain on catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 753-762	21.8	12
126	A theoretical investigation of the (0001) covellite surfaces. <i>Journal of Chemical Physics</i> , 2014 , 141, 044703-9	3.9	12
125	Novel hybrid organic/inorganic 2D quasiperiodic PC: from diffraction pattern to vertical light extraction. <i>Nanoscale Research Letters</i> , 2011 , 6, 371	5	12
124	Synthesis routes for the growth of complex nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 128-133	3	12
123	Determination of surface properties of various substrates using TiO ₂ nanorod coatings with tunable characteristics. <i>Journal of Materials Science</i> , 2008 , 43, 3474-3480	4.3	12

122	Preparation and characterisation of organic/inorganic heterojunction based on BDA-PPV/CdS nanocrystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 74, 175-179	3.1	12
121	Semiconducting and optical properties of selected binary compounds by linear response DFT+U and hybrid functional methods. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	12
120	Revealing Photoluminescence Modulation from Layered Halide Perovskite Microcrystals upon Cyclic Compression. <i>Advanced Materials</i> , 2019 , 31, e1805608	24	12
119	Effect of Morphology on Ultrafast Carrier Dynamics in Asymmetric Gold/Iron Oxide Plasmonic Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26924-26928	3.8	11
118	Band-edge ultrafast pump-probe spectroscopy of core/shell CdSe/CdS rods: assessing electron delocalization by effective mass calculations. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7420-6	3.6	11
117	Optical properties of colloidal nanocrystal spheres and tetrapods. <i>Microelectronics Journal</i> , 2005 , 36, 552-554	1.8	11
116	Formation and characterization of glutamate dehydrogenase monolayers on silicon supports. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 30-40	11.8	11
115	CsCuInCl Nanocrystals: A Perovskite-Related Structure with Inorganic Clusters at A Sites. <i>Inorganic Chemistry</i> , 2020 , 59, 548-554	5.1	11
114	Evidence of electron wave function delocalization in CdSe/CdS asymmetric nanocrystals. <i>Superlattices and Microstructures</i> , 2010 , 47, 170-173	2.8	10
113	Exciton transitions in tetrapod-shaped CdTe nanocrystals investigated by photomodulated transmittance spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 094104	3.4	10
112	A novel hybrid organic/inorganic photonic crystal slab showing a resonance action at the band edge. <i>Nanotechnology</i> , 2011 , 22, 285307	3.4	9
111	Synthesis and perspectives of complex crystalline nano-structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1329-1336	1.6	9
110	Exploiting the Transformative Features of Metal Halides for the Synthesis of CsPbBr ₃ @SiO ₂ Core/Shell Nanocrystals. <i>Chemistry of Materials</i> , 2022 , 34, 405-413	9.6	9
109	Recent Progress in Halide Perovskite Radiation Detectors for Gamma-Ray Spectroscopy. <i>ACS Energy Letters</i> , 2022 , 7, 1066-1085	20.1	9
108	A robust and highly active hydrogen evolution catalyst based on Ru nanocrystals supported on vertically oriented Cu nanoplates. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10787-10795	13	8
107	Triggering Cation Exchange Reactions by Doping. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4895-4904	4	8
106	Cold field emission dominated photoconductivity in ordered three-dimensional assemblies of octapod-shaped CdSe/CdS nanocrystals. <i>Nanoscale</i> , 2013 , 5, 7596-600	7.7	8
105	Radiofrequency characterization of polydimethylsiloxane /iron oxide based nanocomposites. <i>Microelectronic Engineering</i> , 2013 , 111, 46-51	2.5	8

104	Compression stiffness of porous nanostructures from self-assembly of branched nanocrystals. <i>Nanoscale</i> , 2013 , 5, 681-6	7.7	8
103	Spatially resolved photoconductivity of thin films formed by colloidal octapod-shaped CdSe/CdS nanocrystals. <i>Nanoscale</i> , 2011 , 3, 2964-70	7.7	8
102	Steady-state photoinduced absorption of CdSe/CdS octapod shaped nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15326-30	3.6	8
101	Selbstorganisation amphiphiler Nanokristalle. <i>Angewandte Chemie</i> , 2009 , 121, 4346-4347	3.6	8
100	Role of defect states on Auger processes in resonantly pumped CdSe nanorods. <i>Applied Physics Letters</i> , 2007 , 91, 093106	3.4	8
99	Sol-Gel Synthesis of Hybrid Organic-Inorganic Monoliths Doped with Colloidal CdSe/ZnS Core-Shell Nanocrystals. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 441-446	2.3	8
98	Control of electronic band profiles through depletion layer engineering in core-shell nanocrystals.. <i>Nature Communications</i> , 2022 , 13, 537	17.4	8
97	Microwave-Induced Structural Engineering and Pt Trapping in 6R-TaS for the Hydrogen Evolution Reaction. <i>Small</i> , 2020 , 16, e2003372	11	8
96	Lead-Free Double Perovskite Cs ₂ AgInCl ₆ . <i>Angewandte Chemie</i> , 2021 , 133, 11696-11707	3.6	8
95	Cation Exchange Protocols to Radiolabel Aqueous Stabilized ZnS, ZnSe, and CuFeS Nanocrystals with Cu for Dual Radio- and Photo-Thermal Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2002362	15.6	8
94	Insights into the Structure of [email[protected]] and [email[protected]] [email[protected]] Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16338-16348	3.8	7
93	Photoluminescence enhancement and high accuracy patterning of lead halide perovskite single crystals by MeV ion beam irradiation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9923-9930	7.1	7
92	Metastable CdTe@HgTe Core@Shell Nanostructures Obtained by Partial Cation Exchange Evolve into Sintered CdTe Films Upon Annealing. <i>Chemistry of Materials</i> , 2020 , 32, 2978-2985	9.6	7
91	Light-Driven Permanent Charge Separation across a Hybrid Zero-Dimensional/Two-Dimensional Interface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8000-8007	3.8	7
90	Catalytic and seeded shape-selective synthesis of IIIV semiconductor nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 138-141	3	7
89	A novel synthesis of CdSe nanocrystals. <i>Materials Letters</i> , 2004 , 58, 2429-2432	3.3	7
88	Precipitation of Selenium from CdSe Nanocrystal Solutions. <i>Advanced Materials</i> , 2005 , 17, 1321-1324	24	7
87	Core/Shell CdSe/CdS Bone-Shaped Nanocrystals with a Thick and Anisotropic Shell as Optical Emitters. <i>Advanced Optical Materials</i> , 2020 , 8, 1901463	8.1	7

86	Robustness to High Temperatures of AlO-Coated CsPbBr Nanocrystal Thin Films with High-Photoluminescence Quantum Yield for Light Emission. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8167-8175	5.6	7
85	Impact of local structure on halogen ion migration in layered methylammonium copper halide memory devices. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17516-17526	13	7
84	Engineering the Optical Emission and Robustness of Metal-Halide Layered Perovskites through Ligand Accommodation. <i>Advanced Materials</i> , 2021 , 33, e2008004	24	7
83	Ptychographic Imaging of Branched Colloidal Nanocrystals Embedded in Free-Standing Thick Polystyrene Films. <i>Scientific Reports</i> , 2016 , 6, 19397	4.9	7
82	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018 , 10, 11110-11116	7.7	7
81	Understanding Thermal and A-Thermal Trapping Processes in Lead Halide Perovskites Towards Effective Radiation Detection Schemes. <i>Advanced Functional Materials</i> , 2021 , 31, 2104879	15.6	7
80	Selective Fe Promotion on Au Nanoparticles: An Efficient Way to Activate Au/SiO ₂ Catalysts for the CO Oxidation Reaction. <i>ChemCatChem</i> , 2017 , 9, 2952-2960	5.2	6
79	Tuning the CO oxidation catalytic activity of supported metal-metal oxide heterostructures by an aqueous phase post-treatment process. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18075-18083	13	6
78	Direct Quantification of Cu Vacancies and Spatial Localization of Surface Plasmon Resonances in Copper Phosphide Nanocrystals 2019 , 1, 665-670		6
77	Spatial analysis of the photocurrent generation and transport in semiconductor nanocrystal films. <i>Physical Review B</i> , 2012 , 86,	3.3	6
76	Light-Induced Inhibition of Photoluminescence Emission of Core/Shell Semiconductor Nanorods and Its Application for Optical Data Storage. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25576-25580	3.8	6
75	Shape Dependence of the Scattering Processes of Optical Phonons in Colloidal Nanocrystals Detected by Raman Spectroscopy. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2006 , 1, 104-107	1.3	6
74	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2021 , e2106160	24	6
73	Intrinsic and Extrinsic Exciton Recombination Pathways in AgInS ₂ Colloidal Nanocrystals. <i>Energy Material Advances</i> , 2021 , 2021, 1-10	1	6
72	Electrochemical p-Doping of CsPbBr Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021 , 6, 2519-2525	20.1	6
71	0D Nanocrystals as Light-Driven, Localized Charge-Injection Sources for the Contactless Manipulation of Atomically Thin 2D Materials. <i>Advanced Photonics Research</i> , 2021 , 2, 2000151	1.9	6
70	Cesium Manganese Bromide Nanocrystal Sensitizers for Broadband Vis-to-NIR Downshifting. <i>ACS Energy Letters</i> , 2022 , 7, 1850-1858	20.1	6
69	Interplay of Internal Structure and Interfaces on the Emitting Properties of Hybrid ZnO Hierarchical Particles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15182-15191	9.5	5

68	Au _{1-x} Cu _x colloidal nanoparticles synthesized via a one-pot approach: understanding the temperature effect on the Au : Cu ratio. <i>RSC Advances</i> , 2016 , 6, 22213-22221	3.7	5
67	HfN Nanoparticles: An Unexplored Catalyst for the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 15610-15616	3.6	5
66	A lithium ion battery exploiting a composite Fe ₂ O ₃ anode and a high voltage Li _{1.35} Ni _{0.48} Fe _{0.1} Mn _{1.72} O ₄ cathode. <i>RSC Advances</i> , 2014 ,	3.7	5
65	Radiative recombination dynamics in tetrapod-shaped CdTe nanocrystals: Evidence for a photoinduced screening of the internal electric field. <i>Applied Physics Letters</i> , 2008 , 92, 191905	3.4	5
64	Shell thickness dependence of exciton trapping in colloidal core/shell nanorods. <i>Journal of Luminescence</i> , 2008 , 128, 361-365	3.8	5
63	Synthetic strategies to size and shape controlled nanocrystals and nanocrystal heterostructures. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 620, 1-17	3.6	5
62	The Reactivity of CsPbBr Nanocrystals toward Acid/Base Ligands.. <i>ACS Nano</i> , 2022 ,	16.7	5
61	Structure and Surface Passivation of Ultrathin Cesium Lead Halide Nanoplatelets Revealed by Multilayer Diffraction. <i>ACS Nano</i> , 2021 ,	16.7	5
60	Fast Intrinsic Emission Quenching in CsPbBr Nanocrystals. <i>Nano Letters</i> , 2021 , 21, 8619-8626	11.5	5
59	Synthesis of yolk-shell Co ₃ O ₄ /Co _{1-x} Ru _x O ₂ microspheres featuring an enhanced electrocatalytic oxygen evolution activity in acidic medium. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10385-10392	13	5
58	Effects of Oxygen Plasma on the Chemical, Light-Emitting, and Electrical-Transport Properties of Inorganic and Hybrid Lead Bromide Perovskite Nanocrystal Films. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5396-5400	5.6	5
57	Magnetic Transitions and Energy Transfer Processes in Sb-Based Zero-Dimensional Metal Halide Nanocrystals Doped with Manganese. <i>ACS Energy Letters</i> , 2022 , 7, 1566-1573	20.1	5
56	Design of catalytically active porous gold structures from a bottom-up method: The role of metal traces in CO oxidation and oxidative coupling of methanol. <i>Journal of Catalysis</i> , 2019 , 375, 279-286	7.3	4
55	Dynamic orientational photorefractive gratings observed in CdSe/CdS nanorods imbedded in liquid crystal cells. <i>Optical Materials</i> , 2010 , 32, 1060-1065	3.3	4
54	Methylammonium Governs Structural and Optical Properties of Hybrid Lead Halide Perovskites through Dynamic Hydrogen Bonding. <i>Chemistry of Materials</i> ,	9.6	4
53	Assembly of Branched Colloidal Nanocrystals in Polymer Films Leads to Enhanced Viscous Deformation Resistance. <i>Nano Letters</i> , 2016 , 16, 6154-6163	11.5	4
52	Quantum Dots ³⁻⁴⁷		4
51	Halide perovskites and perovskite related materials for particle radiation detection.. <i>Nanoscale</i> , 2022 ,	7.7	4

50	GHz properties of magnetophoretically aligned iron-oxide nanoparticle doped polymers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2908-14	9.5	3
49	Germanium Nanocrystals-MWCNTs Composites as Anode Materials for Lithium Ion Batteries. <i>ECS Transactions</i> , 2014 , 62, 19-24	1	3
48	Luminescent Solar Concentrators utilising aligned CdSe/CdS nanorods 2011 ,		3
47	Polarized single photon emission for quantum cryptography based on colloidal nanocrystals 2009 ,		3
46	Evidence for an internal field in CdSe/CdS nanorods by time resolved and single rod experiments. <i>Superlattices and Microstructures</i> , 2010 , 47, 174-177	2.8	3
45	Growth mechanism, shape and composition control of semiconductor nanocrystals 2008 , 1-34		3
44	Isolated [SbCl ₆] ³⁻ Octahedra Are the Only Active Emitters in Rb ₇ Sb ₃ Cl ₁₆ Nanocrystals. <i>ACS Energy Letters</i> , 3952-3959	20.1	3
43	Bandgap determination from individual orthorhombic thin cesium lead bromide nanosheets by electron energy-loss spectroscopy. <i>Nanoscale Horizons</i> , 2020 , 5, 1610-1617	10.8	3
42	Hollowing of MnO Nanocrystals Triggered by Metal Cation Replacement: Implications for the Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5904-5911	5.6	3
41	Guidelines for the characterization of metal halide nanocrystals. <i>Trends in Chemistry</i> , 2021 , 3, 631-644	14.8	3
40	Topochemical Transformation of Two-Dimensional VSe into Metallic Nonlayered VO for Water Splitting Reactions in Acidic and Alkaline Media.. <i>ACS Nano</i> , 2021 ,	16.7	3
39	From Capacitance-Controlled to Diffusion-Controlled Electrochromism in Nb-Doped TiO ₂ Nanocrystalline Electrodes. <i>ECS Transactions</i> , 2017 , 77, 1671-1679	1	2
38	DYNAMIC ORIENTATIONAL PHOTO-REFRACTIVE GRATINGS OBSERVED IN CdSe/CdS NANORODS DOPED NEMATIC LIQUID CRYSTAL CELLS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010 , 19, 111-121	0.8	2
37	Electron microscopy studies of electron-beam sensitive PbTe-based nanostructures. <i>Microscopy Research and Technique</i> , 2010 , 73, 944-51	2.8	2
36	Role of defect states on electrical and optical properties in CdSe nanorod thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2063-2065	3	2
35	The influence of intrinsic and surface states on the emission properties of colloidal nanocrystals. <i>Superlattices and Microstructures</i> , 2008 , 43, 528-531	2.8	2
34	Quantum Dots4-49		2
33	Tailoring the emission spectrum of colloidal nanocrystals by means of lithographically-imprinted hybrid vertical microcavities 2005 , 5840, 168		2

32	X-ray ptychographic mode of self-assembled CdSe/CdS octapod-shaped nanocrystals in thick polymers. <i>Journal of Applied Crystallography</i> , 2020 , 53, 741-747	3.8	2
31	Multilayer Diffraction Reveals That Colloidal Superlattices Approach the Structural Perfection of Single Crystals		2
30	Optical Properties of Semiconductor Nanorods. <i>Nanoscience and Technology</i> , 2013 , 7-55	0.6	2
29	Reversible Emission Tunability from 2D-Layered Perovskites with Conjugated Organic Cations. <i>Advanced Photonics Research</i> , 2021 , 2, 2100005	1.9	2
28	Colloidal Bismuth Chalcogenide Nanocrystals.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	2
27	Nano- and microscale apertures in metal films fabricated by colloidal lithography with perovskite nanocrystals. <i>Nanotechnology</i> , 2020 , 31, 185304	3.4	1
26	High-resolution TEM study of colloidal cesium lead bromide nanocrystals 2016 , 530-531		1
25	Bottom-Up Synthesis of Nanosized Objects 2014 , 47-80		1
24	Antibody-Functionalized Inorganic NPs: Mimicking Nature for Targeted Diagnosis and Therapy 2014 , 1-28		1
23	Magnetic Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013 , 133-213	0.6	1
22	Highly luminescent, flexible and biocompatible cadmium-based nanocomposites. <i>Microelectronic Engineering</i> , 2013 , 111, 299-303	2.5	1
21	Solution-Processable Quantum Dots 2015 , 163-186		1
20	Iron-oxide colloidal nanoclusters: from fundamental physical properties to diagnosis and therapy 2014 ,		1
19	Novel hybrid organic/inorganic 2D photonic quasicrystals with 8-fold and 12-fold diffraction symmetries 2012 ,		1
18	An ab initio study of the magnetic-metallic CoPt(3)-Au interfaces. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 015001	1.8	1
17	Luminescent Solar Concentrators 2010 , 323-349		1
16	Bottom-up synthesis of nanosized objects 2022 , 85-123		1
15	Ultrafast carrier dynamics in spherical CdSe core/elongated CdS shell nanocrystals. <i>Springer Series in Chemical Physics</i> , 2009 , 289-291	0.3	1

14	Mechanical switching of orientation-related photoluminescence in deep-blue 2D layered perovskite ensembles. <i>Nanoscale</i> , 2021 , 13, 3948-3956	7.7	1
13	Manipulating the morphology of the nano oxide domain in AuCu-iron oxide dumbbell-like nanocomposites as a tool to modify magnetic properties.. <i>RSC Advances</i> , 2018 , 8, 22411-22421	3.7	1
12	Detection of Pb traces in dispersion of CsPbBr nanocrystals by liquid cell transmission electron microscopy. <i>Nanoscale</i> , 2021 , 13, 2317-2323	7.7	1
11	Interconnection of specific nano-objects by electron beam lithography [A controllable method. <i>Materials Science and Engineering C</i> , 2008 , 28, 299-302	8.3	0
10	Atmosphere-Induced Transient Structural Transformations of Pd-Cu and Pt-Cu Alloy Nanocrystals. <i>Chemistry of Materials</i> , 2021 , 33, 8635-8648	9.6	0
9	Large polaron evidence in the ultrafast THz response of Lead-Halide Perovskites. <i>EPJ Web of Conferences</i> , 2019 , 205, 04019	0.3	
8	Tunable metal-semiconductor junction system deriving from thermal instability of high chalcocite Cu ₂ S elongated nanocrystals 2016 , 273-274		
7	Electrical Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013 , 57-85	0.6	
6	Catalytic Properties of Nanorods. <i>Nanoscience and Technology</i> , 2013 , 215-240	0.6	
5	Thermally Driven Cation Exchange at Solid State between Cu ₂ Se and CdSe Nanocrystals: an In-Situ TEM Study. <i>Microscopy and Microanalysis</i> , 2015 , 21, 947-948	0.5	
4	Nanostructures for Photonics 2016 , 2827-2843		
3	Fluorescent Nanocrystals and Proteins. <i>Nanostructure Science and Technology</i> , 2009 , 225-254	0.9	
2	Colloidal Inorganic Nanocrystals 2012 , 251-281		
1	Fluorination suppresses thermal quenching in perovskite QLEDs. <i>Science China Chemistry</i> , 2021 , 64, 1113-1114	7.1	1