

Shuhong Xu

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76
papers

1,269
citations

21
h-index

33
g-index

82
ext. papers

1,461
ext. citations

5
avg, IF

4.38
L-index

#	Paper	IF	Citations
76	Postsynthetic Doping of MnCl Molecules into Preformed CsPbBr Perovskite Nanocrystals via a Halide Exchange-Driven Cation Exchange. <i>Advanced Materials</i> , 2017 , 29, 1700095	24	167
75	Ultrafast Preparation of Black Phosphorus Quantum Dots for Efficient Humidity Sensing. <i>Chemistry - A European Journal</i> , 2016 , 22, 7357-62	4.8	98
74	Fluorescent Nanocrystal Polymer Composites from Aqueous Nanocrystals: Methods without Ligand Exchange. <i>Chemistry of Materials</i> , 2005 , 17, 4783-4788	9.6	98
73	Synthesis of raspberry-like monodisperse magnetic hollow hybrid nanospheres by coating polystyrene template with Fe(3)O(4)@SiO(2) particles. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 94-9	9.3	58
72	Post-healing of defects: an alternative way for passivation of carbon-based mesoscopic perovskite solar cells via hydrophobic ligand coordination. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2449-2455	13	52
71	A simple and sensitive electrochemiluminescence aptasensor for determination of ochratoxin A based on a nicking endonuclease-powered DNA walking machine. <i>Food Chemistry</i> , 2019 , 282, 141-146	8.5	49
70	Improved light extraction efficiency of white organic light-emitting devices by biomimetic antireflective surfaces. <i>Applied Physics Letters</i> , 2010 , 96, 153305	3.4	44
69	Aqueous synthesis of multilayer Mn:ZnSe/Cu:ZnS quantum dots with white light emission. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 660-666	7.1	42
68	Single component Mn-doped perovskite-related CsPbClBr nanoplatelets with a record white light quantum yield of 49%: a new single layer color conversion material for light-emitting diodes. <i>Nanoscale</i> , 2017 , 9, 16858-16863	7.7	41
67	Rigid nanoscopic containers for highly dispersed, stable metal and bimetal nanoparticles with both size and site control. <i>Chemistry - A European Journal</i> , 2005 , 11, 4975-82	4.8	36
66	Aqueous synthesis of internally doped Cu:ZnSe/ZnS core-shell nanocrystals with good stability. <i>Nanotechnology</i> , 2011 , 22, 275605	3.4	35
65	Salts-based size-selective precipitation: toward mass precipitation of aqueous nanoparticles. <i>Langmuir</i> , 2010 , 26, 633-8	4	32
64	Co-doping of Ag into Mn:ZnSe Quantum Dots: Giving Optical Filtering effect with Improved Monochromaticity. <i>Scientific Reports</i> , 2015 , 5, 14817	4.9	30
63	pH-sensitive photoluminescence for aqueous thiol-capped CdTe nanocrystals. <i>Nanotechnology</i> , 2011 , 22, 315703	3.4	30
62	Gold aggregates- and quantum dots- embedded nanospheres: Switchable dual-mode image probes for living cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4307		28
61	Synthesis of Ag doped ZnInSe ternary quantum dots with tunable emission. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5111-5115	7.1	27
60	Lead Halide Perovskite Nanocrystals-Phospholipid Micelles and Their Biological Applications: Multiplex Cellular Imaging and in Vitro Tumor Targeting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47671-47679	9.5	26

59	Discriminative detection of bivalent Mn ions by a pH-adjustable recognition method via quantum dot fluorescence sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9216		24
58	From red selenium to cuprous selenide: a novel and facile route to a high performance metal selenide cathode for sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14585	13	21
57	Theoretical investigation of CdSe clusters: influence of solvent and ligand on nanocrystals. <i>Journal of Molecular Modeling</i> , 2010 , 16, 469-73	2	21
56	Theoretical simulation of CdTe nanocrystals in aqueous synthesis. <i>Structural Chemistry</i> , 2010 , 21, 519-525	5.8	21
55	Cationic ligand protection: a novel strategy for one-pot preparation of narrow-dispersed aqueous CdS spheres. <i>Langmuir</i> , 2009 , 25, 10237-42	4	17
54	Size-tunable CsPbBr perovskite ring arrays for lasing. <i>Nanoscale</i> , 2018 , 10, 10383-10388	7.7	17
53	Coherent Random Lasing from Dye Aggregates in Polydimethylsiloxane Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27232-27238	9.5	16
52	Manipulation of Irradiative Defects at MnSe and ZnSe Dopant/Host Interface. <i>Advanced Functional Materials</i> , 2016 , 26, 4274-4282	15.6	15
51	Analysis and design of resonance Raman reporter molecules by density functional theory. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1196-1200	2.3	15
50	Synthesis of thiosalicylic acid-capped CdTe quantum dots. <i>RSC Advances</i> , 2014 , 4, 4993	3.7	13
49	Theoretical and experimental investigation of stability and spectra of doped Ag:ZnSe nanocrystals. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2184	2	13
48	The influence of solvent and ligands on characters of ZnS clusters. <i>Structural Chemistry</i> , 2010 , 21, 1215-1229	11	
47	Preparation of Carbazole-Containing Amphiphilic Copolymers: An Efficient Method for the Incorporation of Functional Nanocrystals. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 929-936	3.9	11
46	An optical ratiometric temperature sensor based on dopant-dependent thermal equilibrium in dual-emitting Ag&Mn:ZnInS quantum dots. <i>RSC Advances</i> , 2016 , 6, 58113-58117	3.7	11
45	Experimental investigation on the role of PVA in eliminating inhibition phenomenon of carbon black during the synthesis of polystyrene/carbon black composite particles. <i>Polymer Engineering and Science</i> , 2012 , 52, 1309-1316	2.3	10
44	Bi and Sb Codoped CsAgNaInCl Double Perovskite with Excitation-Wavelength-Dependent Dual-Emission for Anti-Counterfeiting Application. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31031-31037	9.5	10
43	Achieving Ultrahigh Piezoelectricity in Organic/Inorganic Vacancy-Ordered Halide Double Perovskites for Mechanical Energy Harvesting. <i>ACS Energy Letters</i> , 2021 , 6, 16-23	20.1	9
42	Theoretical and experimental investigation of doping M in ZnSe (M = Cd, Mn, Ag, Cu) clusters: optical and bonding characteristics. <i>Luminescence</i> , 2016 , 31, 312-316	2.5	8

41	Assembly of light-emitting diode based on hydrophilic CdTe quantum dots incorporating dehydrated silica gel. <i>Luminescence</i> , 2016 , 31, 419-422	2.5	8
40	Water-ethanol solvent mixtures: a promising liquid environment for high quality positively-charged CdTe nanocrystal preparation. <i>RSC Advances</i> , 2015 , 5, 18379-18383	3.7	7
39	Synthesis of Aqueous CdTe Nanocrystals with High Efficient Blue-Green Emission of Exciton. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 803-808	4.9	7
38	Dendrimer ligands-capped CHNHPbBr perovskite nanocrystals with delayed halide exchange and record stability against both moisture and water. <i>Nanotechnology</i> , 2018 , 29, 235603	3.4	6
37	Surface states controlled broadband enhancement of two-photon absorption. <i>Applied Physics Letters</i> , 2013 , 103, 231111	3.4	6
36	Theoretical study on influence of ligand and solvent to CdS clusters. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 156-164	2.1	5
35	Synthesis of water-dispersible one-dimensional Te@ZnTe core-shell nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16427		5
34	Application of aqueous Ag:ZnInSe quantum dots to non-toxic sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 46186-46191	3.7	4
33	Caution for monitoring the surface modification of dually emitted ZnSe quantum dots by time-resolved photoluminescence. <i>Nanotechnology</i> , 2015 , 26, 125703	3.4	4
32	Theoretical investigation on bond and spectrum of cyclo[18] carbon (C) with sp-hybridized. <i>Journal of Molecular Modeling</i> , 2020 , 26, 111	2	4
31	Design and assembly of an aqueous red CdTe QD-LED: major factors to fabricate aqueous QD-LEDs. <i>RSC Advances</i> , 2016 , 6, 77963-77967	3.7	4
30	Optical and bonding characters of Hg type clusters. <i>New Journal of Chemistry</i> , 2013 , 37, 3303	3.6	4
29	Investigation of a naked Ag ₇ cluster: configurations and spectral characteristics. <i>New Journal of Chemistry</i> , 2015 , 39, 3105-3108	3.6	3
28	A two-step method to synthesize water-dispersible Mn:ZnSe/ZnO core/shell quantum dots with pure dopant emission. <i>New Journal of Chemistry</i> , 2015 , 39, 8818-8824	3.6	3
27	A simple multiple centrifugation method for large-area homogeneous perovskite CsPbBr films with optical lasing. <i>RSC Advances</i> , 2020 , 10, 25480-25486	3.7	3
26	Contrast of Bonding and Characters for C ₆ , B ₃ N ₃ , C ₆ H ₆ and B ₃ N ₃ H ₆ Molecules. <i>Chinese Journal of Chemistry</i> , 2010 , 28, 734-740	4.9	3
25	Aromaticity of ionic structures: Investigation and application of NICS value and 4n + 2 rule. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 1287-1294	2.1	3
24	Improving power conversion efficiency in luminescent solar concentrators using nanoparticle fluorescence and scattering. <i>Nanotechnology</i> , 2020 , 31, 455205	3.4	3

23	High perovskite-to-manganese energy transfer efficiency in single-component white-emitting Mn-doped halide perovskite quantum dots. <i>Journal of Materials Science</i> , 2020 , 55, 2984-2993	4.3	3
22	Configurations and characteristics of boron and B clusters. <i>Journal of Molecular Modeling</i> , 2017 , 23, 198-207	2	2
21	Synthesis of nontoxic Co:CuInS ₂ @ZnS nanocrystals with both fluorescence and room temperature ferromagnetism. <i>RSC Advances</i> , 2016 , 6, 19430-19436	3.7	2
20	The influence of surface composition of quantum dots fluorescence sensing on the discriminative detection of bivalent Mn and Cu cations. <i>Analytical Methods</i> , 2014 , 6, 9596-9600	3.2	2
19	A novel separation technique for aqueous nanoparticles based on a phase transfer approach. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13469		2
18	Investigation of Zn _m Cd _n X _y (y = m + n; X = Te, Se and S) Clusters with TDDFT Method. <i>Journal of Cluster Science</i> , 2011 , 22, 49-58	3	2
17	Synthesis of Higher Aluminum Content Hexagonal and Cubic Mesoporous Aluminosilicates toward Catalysts. <i>Topics in Catalysis</i> , 2005 , 35, 25-34	2.3	2
16	Stable white photoluminescence from Mn-contained organic lead bromide perovskite ring arrays formed from 2D colloidal crystal templates. <i>New Journal of Chemistry</i> , 2020 , 44, 13619-13625	3.6	2
15	Size-dependent dual emission of Cu,Mn:ZnSe QDs: Controlling both emission wavelength and intensity. <i>Luminescence</i> , 2017 , 32, 474-480	2.5	1
14	pH-Dependent Metal-Enhanced Fluorescence from CdTe@PAA Nanospheres near the Au Nanoparticles in Aqueous Solution. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 1490-1496	4.9	1
13	Tuning optical properties and optical rotation of 3-mercaptopropionic acid capped organic-inorganic hybrid perovskites. <i>Luminescence</i> , 2020 , 35, 203-207	2.5	1
12	Lead-free p-type Mn:Cs ₃ Cu ₂ I ₅ perovskite with tunable dual-color emission through room-temperature grinding method. <i>Journal of Materials Science</i> , 2021 , 56, 12326-12335	4.3	1
11	Spontaneous morphology reconfiguration of luminescent CH ₃ NH ₃ PbBr ₃ perovskites from monodispersed nanocrystals to discontinuous rings by dewetting-triggered solute migration. <i>Journal of Materials Science</i> , 2019 , 54, 1248-1254	4.3	1
10	Doping of Mn ²⁺ into Aqueous ZnSe Nanocrystals with Pure Dopant Emission through a Light-Induced Electrostatic Attraction and Diffusion Method. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 989-997	3.8	1
9	Ultrasonically-prepared copper-doped cesium halide nanocrystals with bright and stable emission. <i>Nanoscale</i> , 2021 , 13, 9659-9667	7.7	1
8	Investigation of optical properties for N- and F-doped triangular shaped carbon molecules. <i>Journal of Molecular Modeling</i> , 2021 , 27, 154	2	0
7	In Situ-Prepared Attachable Transparent Luminescent Solar Concentrators for Photovoltaic with Polymer Antireflection/Barrier Layer. <i>Solar Rrl</i> , 2021 , 5, 2100491	7.1	0
6	Precise control of the ratiometric fluorescence of dual-emissive B/N-doped carbon dots using pH-dependent bonds. <i>Nanotechnology</i> , 2021 , 32, 175604	3.4	0

- 5 Modeling and Simulation of Bonding and Optical Characters of Ternary Nanocrystals. *Journal of Cluster Science*, **2013**, 24, 439-447 3
- 4 Bonding characters of M-Cd₄Te₄ and M-Cd₃Te₃ (M = Cr, Cu, Ag, Al, Cd, and Zn) clusters. *International Journal of Quantum Chemistry*, **2011**, 111, 3167-3173 2.1
- 3 A Green Method for Recycling 2-Propanol from Water during Purification Process of Aqueous Nanocrystals. *Chinese Journal of Chemistry*, **2011**, 29, 1389-1394 4.9
- 2 Degradation behaviors of photoelectrical properties of mixed cation perovskite solar cells under equivalent 1 MeV electron irradiation. *Journal Physics D: Applied Physics*, **2021**, 54, 065103 3
- 1 Synthesis of Mn-doped CsPbCl_xBr_{3-x} perovskite nanocrystals using ultrasonic irradiation-promoted with decrease of reaction order. *Nano Express*, **2020**, 1, 010056 2