Bin Yang

List of Publications by Year
in descending order

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62 papers	4,651 citations	117625 34 h-index	123424 61 g-index
62 all docs	62 docs citations	62 times ranked	5016 citing authors

#	Article	IF	Citations
1	Spatial Separation of Photogenerated Charges on Wellâ€Defined Bismuth Vanadate Square Nanocrystals. Small, 2022, 18, e2103245.	10.0	23
2	Germanium Halides Serving as Ideal Precursors: Designing a More Effective and Less Toxic Route to High-Optoelectronic-Quality Metal Halide Perovskite Nanocrystals. Nano Letters, 2022, 22, 636-643.	9.1	15
3	Colloidal Synthesis and Tunable Multicolor Emission of Vacancyâ€Ordered Cs₂HfCl₆ Perovskite Nanocrystals. Laser and Photonics Reviews, 2022, 16, .	8.7	38
4	Tuning Exciton Recombination Pathways in Inorganic Bismuth-Based Perovskite for Broadband Emission. Energy Material Advances, 2022, 2022, .	11.0	22
5	Memorial Viewpoint for Keli Han. Journal of Physical Chemistry A, 2022, 126, 3973-3975.	2.5	0
6	Organo-Metal Halide Scintillator with Weak Thermal Quenching Up to 200 Â°C. Journal of Physical Chemistry Letters, 2022, 13, 5794-5800.	4.6	16
7	Charge-carrier dynamics of trivalent-metal alloyed halide double-perovskite nanocrystals. Chemical Physics Letters, 2021, 770, 138440.	2.6	5
8	Lead-free rare-earth double perovskite Cs2AgIn1â^'Î³â^'xBixLaÎ³Cl6 nanocrystals with highly efficient warm-white emission. Science China Materials, 2021, 64, 2667-2674.	6.3	18
9	Phase Engineering of Cesium Manganese Bromides Nanocrystals with Colorâ€Tunable Emission. Angewandte Chemie, 2021, 133, 19805-19811.	2.0	12
10	Phase Engineering of Cesium Manganese Bromides Nanocrystals with Colorâ€Tunable Emission. Angewandte Chemie - International Edition, 2021, 60, 19653-19659.	13.8	64
11	Ultrafast Dynamics of Self-Trapped Excitons in Lead-Free Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2021, 12, 8256-8262.	4.6	82
12	Controlling Photoluminescence and Photocatalysis Activities in Leadâ€Free Cs₂Pt_xSn_{1â^'x}Cl₆ Perovskites via Ion Substitution. Angewandte Chemie, 2021, 133, 22875-22881.	2.0	13
13	Controlling Photoluminescence and Photocatalysis Activities in Leadâ€Free Cs₂Pt_xSn_{1â^'x}Cl₆ Perovskites via Ion Substitution. Angewandte Chemie - International Edition, 2021, 60, 22693-22699.	13.8	44
14	Efficient Luminescent Halide Quadrupleâ€Perovskite Nanocrystals via Trapâ€Engineering for Highly Sensitive Photodetectors. Advanced Materials, 2021, 33, e2007215.	21.0	49
15	Yb²⁺-Alloyed Cs₄PbI₆â€“CsPbI₃ Perovskite Nanocomposites for Efficient and Stable Pure-Red Emission. Journal of Physical Chemistry Letters, 2021, 12, 10093-10098.	4.6	17
16	Bright Triplet Self-Trapped Excitons to Dopant Energy Transfer in Halide Double-Perovskite Nanocrystals. Nano Letters, 2021, 21, 8671-8678.	9.1	53
17	Lead-free B-site bimetallic perovskite photocatalyst for efficient benzylic Câ€“H bond activation. Cell Reports Physical Science, 2021, 2, 100656.	5.6	32
18	Structural and Electronic Properties of LaSi_n^{â€“/0} (n = 2â€“6) Clusters: Anion Photoelectron Spectroscopy and Density Functional Calculations. Journal of Physical Chemistry A, 2021, 125, 10557-10567.	2.5	8

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19	Microsolvation of Sodium Thiocyanate in Water: Gas Phase Anion Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2020, 124, 7816-7826.	2.5	4
20	Appearance of V-encapsulated tetragonal prism motifs in VSi₁₀^{â¯} and VSi₁₁^{â¯} clusters. Physical Chemistry Chemical Physics, 2020, 22, 22989-22996.	2.8	10
21	Lead-Free Small-Bandgap Cs₂CuSbCl₆ Double Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 6463-6467.	4.6	57
22	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodiumâ€“Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. Angewandte Chemie - International Edition, 2020, 59, 21216-21223.	13.8	28
23	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodiumâ€“Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. Angewandte Chemie, 2020, 132, 21402-21409.	2.0	5
24	Efficient Thermally Activated Delayed Fluorescence from Allâ€Inorganic Cesium Zirconium Halide Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 21925-21929.	13.8	126
25	Efficient Thermally Activated Delayed Fluorescence from Allâ€Inorganic Cesium Zirconium Halide Perovskite Nanocrystals. Angewandte Chemie, 2020, 132, 22109-22113.	2.0	24
26	Self-trapped exciton engineering for white-light emission in colloidal lead-free double perovskite nanocrystals. Science Bulletin, 2020, 65, 1078-1084.	9.0	73
27	Carrier Multiplication and Hot-Carrier Cooling Dynamics in Quantum-Confined CsPbI₃ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 1921-1926.	4.6	37
28	Modulating Charge-Carrier Dynamics in Mn-Doped All-Inorganic Halide Perovskite Quantum Dots through the Doping-Induced Deep Trap States. Journal of Physical Chemistry Letters, 2020, 11, 3705-3711.	4.6	22
29	Size effect of lead-free halide double perovskite on luminescence property. Science China Chemistry, 2019, 62, 1405-1413.	8.2	95
30	Asynchronous Photoexcited Electronic and Structural Relaxation in Lead-Free Perovskites. Journal of the American Chemical Society, 2019, 141, 13074-13080.	13.7	39
31	Leadâ€Free Sodiumâ€“Indium Double Perovskite Nanocrystals through Doping Silver Cations for Bright Yellow Emission. Angewandte Chemie - International Edition, 2019, 58, 17231-17235.	13.8	166
32	Charge-Carrier Dynamics of Lead-Free Halide Perovskite Nanocrystals. Accounts of Chemical Research, 2019, 52, 3188-3198.	15.6	164
33	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO₃^{â¯} Cluster Anions. Angewandte Chemie, 2019, 131, 17447-17452.	2.0	14
34	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO₃^{â¯} Cluster Anions. Angewandte Chemie - International Edition, 2019, 58, 17287-17292.	13.8	21
35	Leadâ€Free Sodiumâ€“Indium Double Perovskite Nanocrystals through Doping Silver Cations for Bright Yellow Emission. Angewandte Chemie, 2019, 131, 17391-17395.	2.0	36
36	Size-selected anion photoelectron spectroscopy and density functional theory study of MnCnâ¯/0 (n =) Tj ETQq0 0 0 rgBT /Overlock 10 150, 074304.	3.0	5

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37	Structural evolution and electronic properties of CoSi_n^{â^'} (n = 3â€“12) clusters: mass-selected anion photoelectron spectroscopy and quantum chemistry calculations. Physical Chemistry Chemical Physics, 2019, 21, 6207-6215.	2.8	24
38	Colloidal Synthesis and Chargeâ€Carrier Dynamics of Cs₂AgSb_{1â^'y}Bi_yX₆ (X: Br, Cl; 0 â‰¤y) Tj ETQq0 0 0 rgBT /Over	52	
39	Colloidal Synthesis and Chargeâ€Carrier Dynamics of Cs₂AgSb_{1â^'y}Bi_yX₆ (X: Br, Cl; 0 â‰¤y) Tj ETQq1 1 0.784314 rg	138	1
40	Leadâ€Free Silverâ€Bismuth Halide Double Perovskite Nanocrystals. Angewandte Chemie, 2018, 130, 5457-5461.	2.0	132
41	Leadâ€Free Silverâ€Bismuth Halide Double Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2018, 57, 5359-5363.	13.8	281
42	Formamidinium Lead Bromide (FAPbBr3) Perovskite Microcrystals for Sensitive and Fast Photodetectors. Nano-Micro Letters, 2018, 10, 43.	27.0	77
43	Catalytic CO Oxidation by O₂ Mediated by Nobleâ€Metalâ€Free Cluster Anions Cu₂VO_{3â€“5}^{â^'}. Angewandte Chemie - International Edition, 2018, 57, 3349-3353.	13.8	42
44	Catalytic CO Oxidation by O₂ Mediated by Nobleâ€Metalâ€Free Cluster Anions Cu₂VO_{3â€“5}^{â^'}. Angewandte Chemie, 2018, 130, 3407-3411.	2.0	13
45	Lead-Free Direct Band Gap Double-Perovskite Nanocrystals with Bright Dual-Color Emission. Journal of the American Chemical Society, 2018, 140, 17001-17006.	13.7	399
46	Photoelectron Spectroscopy and Theoretical Study of Cr_nSi_{15â€“n}^{â€“} (n = 1â€“3): Effects of Doping Cr Atoms on the Structural and Magnetic Properties. Journal of Physical Chemistry A, 2018, 122, 9886-9893.	2.5	38
47	Constructing Sensitive and Fast Lead-Free Single-Crystalline Perovskite Photodetectors. Journal of Physical Chemistry Letters, 2018, 9, 3087-3092.	4.6	92
48	High Resolution Mapping of Two-Photon Excited Photocurrent in Perovskite Microplate Photodetector. Journal of Physical Chemistry Letters, 2018, 9, 5017-5022.	4.6	35
49	Molecular dynamics simulation, ab initio calculation, and size-selected anion photoelectron spectroscopy study of initial hydration processes of calcium chloride. Journal of Chemical Physics, 2018, 148, 222839.	3.0	11
50	Perovskite CH₃NH₃PbI_{3â€“x}Br_x Single Crystals with Charge-Carrier Lifetimes Exceeding 260 Î¼s. ACS Applied Materials & Interfaces, 2017, 9, 14827-14832.	8.0	58
51	Photostability of the Oleic Acid-Encapsulated Water-Soluble Cd_xSe_yZn_{1â€“x}S_{1â€“y} Gradient Coreâ€“Shell Quantum Dots. ACS Omega, 2017, 2, 1922-1929.	3.5	8
52	Ultrasensitive and Fast Allâ€Inorganic Perovskiteâ€Based Photodetector via Fast Carrier Diffusion. Advanced Materials, 2017, 29, 1703758.	21.0	255
53	Extra long electronâ€“hole diffusion lengths in CH₃NH₃PbI_{3â^'x}Cl_x perovskite single crystals. Journal of Materials Chemistry C, 2017, 5, 8431-8435.	5.5	91
54	Leadâ€Free, Airâ€Stable Allâ€Inorganic Cesium Bismuth Halide Perovskite Nanocrystals. Angewandte Chemie, 2017, 129, 12645-12649.	2.0	88

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55	Leadâ€Free, Airâ€Stable Allâ€Inorganic Cesium Bismuth Halide Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 12471-12475.	13.8	487
56	Structural and magnetic properties of FeGenâ¯/0 (n = 3-12) clusters: Mass-selected anion photoelectron spectroscopy and density functional theory calculations. Journal of Chemical Physics, 2017, 147, 234310.	3.0	32
57	Structural and Electronic Properties of Co_nC₃^{â¯/0}and Co_nC₄^{â¯/0}(n=1â¯4) Clusters: Mass-Selected Anion Photoelectron Spectroscopy and Density Functional Theory Calculations. Chinese Journal of Chemical Physics, 2017, 30, 717-726.	1.3	5
58	Imaging Electronic Trap States in Perovskite Thin Films with Combined Fluorescence and Femtosecond Transient Absorption Microscopy. Journal of Physical Chemistry Letters, 2016, 7, 1725-1731.	4.6	48
59	Structural and electronic properties of HCnSâ¯ (n = 4â€“11): anion photoelectron spectroscopy and density functional calculations. RSC Advances, 2016, 6, 78064-78072.	3.6	2
60	Low Threshold Two-Photon-Pumped Amplified Spontaneous Emission in CH₃NH₃PbBr₃ Microdisks. ACS Applied Materials & Interfaces, 2016, 8, 19587-19592.	8.0	54
61	Spatial Localization of Excitons and Charge Carriers in Hybrid Perovskite Thin Films. Journal of Physical Chemistry Letters, 2015, 6, 3041-3047.	4.6	59
62	A nanocomposite ultraviolet photodetector based on interfacial trap-controlled charge injection. Nature Nanotechnology, 2012, 7, 798-802.	31.5	634