Jun Lu

List of Publications by Year
in descending order

81 papers	11,789 citations	147726 31 h-index	58549 82 g-index
86 all docs	86 docs citations	86 times ranked	13117 citing authors

#	Article	IF	Citations
1	Twoâ€Dimensional Nanocrystals Produced by Exfoliation of Ti₃AlC₂. Advanced Materials, 2011, 23, 4248-4253.	11.1	7,931
2	A Cocrystal Strategy to Tune the Luminescent Properties of Stilbeneâ€Type Organic Solidâ€State Materials. Angewandte Chemie - International Edition, 2011, 50, 12483-12486.	7.2	463
3	Luminescent films for chemo- and biosensing. Chemical Society Reviews, 2015, 44, 6981-7009.	18.7	254
4	Reversibly Thermochromic, Fluorescent Ultrathin Films with a Supramolecular Architecture. Angewandte Chemie - International Edition, 2011, 50, 720-723.	7.2	212
5	Ordered Poly(pâ€phenylene)/Layered Double Hydroxide Ultrathin Films with Blue Luminescence by Layerâ€byâ€Layer Assembly. Angewandte Chemie - International Edition, 2009, 48, 3073-3076.	7.2	172
6	Layered Hostâ€“Guest Materials with Reversible Piezochromic Luminescence. Angewandte Chemie - International Edition, 2011, 50, 7037-7040.	7.2	165
7	Highly Dispersed TiO₆ Units in a Layered Double Hydroxide for Waterâ€‰Splitting. Chemistry - A European Journal, 2012, 18, 11949-11958.	1.7	132
8	Heterogeneous Transparent Ultrathin Films with Tunableâ€Color Luminescence Based on the Assembly of Photoactive Organic Molecules and Layered Double Hydroxides. Advanced Functional Materials, 2011, 21, 2497-2505.	7.8	106
9	Heterogeneous ultrathin films fabricated by alternate assembly of exfoliated layered double hydroxides and polyanion. Chemical Communications, 2008, , 5188.	2.2	101
10	Structure observation of graphene quantum dots by single-layered formation in layered confinement space. Chemical Science, 2015, 6, 4846-4850.	3.7	101
11	Sulforhodamine B Intercalated Layered Double Hydroxide Thin Film with Polarized Photoluminescence. Journal of Physical Chemistry B, 2009, 113, 1381-1388.	1.2	98
12	Recent advances in photofunctional guest/layered double hydroxide host composite systems and their applications: experimental and theoretical perspectives. Journal of Materials Chemistry, 2011, 21, 13128.	6.7	91
13	Cellular uptake and gene delivery using layered double hydroxide nanoparticles. Journal of Materials Chemistry B, 2013, 1, 61-68.	2.9	85
14	A strategy to the ordered assembly of functional small cations with layered double hydroxides for luminescent ultra-thin films. Chemical Communications, 2010, 46, 5912.	2.2	68
15	Modification of luminescent properties of a coumarin derivative by formation of multi-component crystals. CrystEngComm, 2012, 14, 5121.	1.3	59
16	Mechanochemical synthesis of a fluorenone-based metal organic framework with polarized fluorescence: an experimental and computational study. Journal of Materials Chemistry C, 2013, 1, 997-1004.	2.7	59
17	Tris(8â€hydroxyquinolineâ€5â€sulfonate)aluminum Intercalated Mgâ€“Al Layered Double Hydroxide with Blue Luminescence by Hydrothermal Synthesis. Advanced Functional Materials, 2010, 20, 2848-2856.	7.8	58
18	Orderly Ultrathin Films Based on Perylene/Poly(Nâ€vinyl carbazole) Assembled with Layered Double Hydroxide Nanosheets: 2D Fluorescence Resonance Energy Transfer and Reversible Fluorescence Response for Volatile Organic Compounds. Advanced Materials, 2012, 24, 6053-6057.	11.1	57

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19	A combined study based on experiment and molecular dynamics: perylene tetracarboxylate intercalated in a layered double hydroxide matrix. Physical Chemistry Chemical Physics, 2009, 11, 9200.	1.3	52
20	In situ topotactic fabrication of direct Z-scheme 2D/2D ZnO/Zn_xCd_{1â^'x}S single crystal nanosheet heterojunction for efficient photocatalytic water splitting. Catalysis Science and Technology, 2018, 8, 6458-6467.	2.1	49
21	Layer-by-layer assembly of ruthenium(ii) complex anion/layered double hydroxide ordered ultrathin films with polarized luminescence. Chemical Communications, 2009, , 6358.	2.2	46
22	Cu2O/Ti3C2MXene heterojunction photocatalysts for improved CO2 photocatalytic reduction performance. Applied Surface Science, 2021, 542, 148685.	3.1	45
23	Anionic Poly(p-Phenylenevinylene)/Layered Double Hydroxide Ordered Ultrathin Films with Multiple Quantum Well Structure: A Combined Experimental and Theoretical Study. Langmuir, 2010, 26, 7007-7014.	1.6	44
24	Thin film of coumarin-3-carboxylate and surfactant co-intercalated layered double hydroxide with polarized photoluminescence: a joint experimental and molecular dynamics study. Journal of Materials Chemistry, 2010, 20, 5016.	6.7	44
25	Tunable compositions and luminescent performances on members of the layered rare-earth hydroxides (Y1â^'xLnx)2(OH)5NO3Â·nH2O (Ln = Tb, Eu). Dalton Transactions, 2011, 40, 11781.	1.6	43
26	2D/2D g-C3N4/MgFe MMO nanosheet heterojunctions with enhanced visible-light photocatalytic H2 production. Journal of Alloys and Compounds, 2018, 769, 611-619.	2.8	40
27	Aggregation-induced emission molecules in layered matrices for two-color luminescence films. Chemical Communications, 2014, 50, 11895-11898.	2.2	37
28	Bis(8-hydroxyquinolate-5-sulfonate)zinc intercalated layered double hydroxide and its controllable luminescent properties. Journal of Materials Chemistry, 2010, 20, 9718.	6.7	32
29	In Situ Polymerization of the 4-Vinylbenzenesulfonic Anion in Niâ^'Alâ^'Layered Double Hydroxide and Its Molecular Dynamic Simulation. Journal of Physical Chemistry A, 2008, 112, 7671-7681.	1.1	31
30	Thin film of sulfonated zinc phthalocyanine/layered double hydroxide for achieving multiple quantum well structure and polarized luminescence. Chemical Communications, 2010, 46, 8654.	2.2	31
31	Benzocarbazole anions intercalated layered double hydroxide and its tunable fluorescence. Physical Chemistry Chemical Physics, 2010, 12, 15085.	1.3	31
32	Synthesis, Structure, and Luminescence of 2D-Dilute Magnetic Semiconductors:Â Zn1-xMnxSeÂ·0.5L (L =) Tj ETQq0 0 0 rgBT /Overlock 1	1.2	30
33	The In-situ Growth NiFe-layered Double Hydroxides/g-C3N4 Nanocomposite 2D/2D Heterojunction for Enhanced Photocatalytic CO2 Reduction Performance. Catalysis Letters, 2021, 151, 1683-1692.	1.4	30
34	Molecular Orientation and Fluorescence Studies on Naphthalene Acetate Intercalated Zn2Al Layered Double Hydroxide. Journal of Physical Chemistry C, 2008, 112, 19886-19895.	1.5	29
35	Phosphorescent Sensor Based on Iridium Complex/Poly(vinylcarbazole) Orderly Assembled with Layered Double Hydroxide Nanosheets: Two-Dimensional FÃ¶ster Resonance Energy Transfer and Reversible Luminescence Response for VOCs. Journal of Physical Chemistry C, 2014, 118, 20538-20544.	1.5	29
36	Manipulate the nano-structure of layered double hydroxides via calcination for enhancing immobilization of anionic dyes on collagen fibers. Journal of Colloid and Interface Science, 2022, 610, 182-193.	5.0	29

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37	Selfâ€Cycling Free Radical Generator from LDHâ€Based Nanohybrids for Ferroptosisâ€Enhanced Chemodynamic Therapy. Advanced Healthcare Materials, 2021, 10, e2100539.	3.9	28
38	Ordered Blue Luminescent Ultrathin Films by the Effective Coassembly of Tris(8-hydroxyquinolate-5-sulfonate)aluminum and Polyanions with Layered Double Hydroxides. Langmuir, 2011, 27, 11501-11507.	1.6	26
39	Regular assembly of 9-fluorenone-2,7-dicarboxylate within layered double hydroxide and its solid-state photoluminescence: a combined experiment and computational study. RSC Advances, 2013, 3, 4303.	1.7	26
40	A Luminescent Inorganic/Organic Composite Ultrathin Film Based on a 2D Cascade FRET Process and Its Potential VOC Selective Sensing Properties. Advanced Functional Materials, 2016, 26, 6752-6759.	7.8	26
41	Studies on the Orientation and Polarized Photoluminescence of Î±-Naphthalene Acetate in the Layered Double Hydroxide Matrix. Journal of Physical Chemistry C, 2009, 113, 12888-12896.	1.5	24
42	Near-Infrared Absorption and Polarized Luminescent Ultrathin Films Based on Sulfonated Cyanines and Layered Double Hydroxide. Journal of Physical Chemistry C, 2011, 115, 7939-7946.	1.5	24
43	Two dimensional restriction-induced luminescence of tetraphenyl ethylene within the layered double hydroxide ultrathin films and its fluorescence resonance energy transfer. Journal of Materials Chemistry C, 2013, 1, 5944.	2.7	23
44	Enhanced green fluorescence protein/layered double hydroxide composite ultrathin films: bio-hybrid assembly and potential application as a fluorescent biosensor. Journal of Materials Chemistry B, 2017, 5, 160-166.	2.9	22
45	Two-dimensional ultrathin ZnxCd1-xS nanosheet with exposed polar facet by using layered double hydroxide template for photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2018, 43, 19481-19491.	3.8	22
46	Ultrathin pâ€“n type Cu₂O/CuCoCr-layered double hydroxide heterojunction nanosheets for photo-assisted aqueous Znâ€“CO₂ batteries. Journal of Materials Chemistry A, 2021, 9, 26061-26068.	5.2	21
47	Luminous Ultrathin Films by the Ordered Micellar Assembly of Neutral Bis(8-hydroxyquinolate)zinc with Layered Double Hydroxides. Journal of Physical Chemistry C, 2012, 116, 12836-12843.	1.5	20
48	The in situ shape-controlled synthesis and structureâ€“activity relationship of Pd nanocrystal catalysts supported on layered double hydroxide. Catalysis Science and Technology, 2013, 3, 2016.	2.1	20
49	8-Hydroxypyrene-1,3,6-trisulphonate and octanesulphonate co-assembled layered double hydroxide and its controllable solid-state luminescence by hydrothermal synthesis. Journal of Solid State Chemistry, 2012, 185, 219-224.	1.4	19
50	Luminous composite ultrathin films of the DCM dye assembled with layered double hydroxides and its fluorescence solvatochromism properties for polarity sensors. Journal of Materials Chemistry C, 2015, 3, 5246-5252.	2.7	19
51	Zinc-aluminum oxide solid solution nanosheets obtained by pyrolysis of layered double hydroxide as the photoanodes for dye-sensitized solar cells. Journal of Colloid and Interface Science, 2018, 515, 240-247.	5.0	19
52	Fabrication of an anionic polythiophene/layered double hydroxide ultrathin film showing red luminescence and reversible pH photoresponse. AICHE Journal, 2011, 57, 1926-1935.	1.8	16
53	The 2-phenylbenzimidazole-5-sulfonate/layered double hydroxide co-intercalation composite and its luminescence response to nucleotides. Journal of Materials Chemistry C, 2014, 2, 5161-5167.	2.7	16
54	An Inexpensive Co-Intercalated Layered Double Hydroxide Composite with Electron Donor-Acceptor Character for Photoelectrochemical Water Splitting. Scientific Reports, 2015, 5, 12170.	1.6	16

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55	Assembly Chemistry of Anion-intercalated Layered Materials. , 2011, , 375-404.		15
56	Luminescent ultrathin film of anionic styrylbiphenyl derivativeâ€“layered double hydroxide and its reversible sensing for heavy metal ions. Physical Chemistry Chemical Physics, 2012, 14, 8591.	1.3	15
57	Controllable luminescence and electrochemical detection of Pb2+ ion based on the 2,2â€²-Azino-bis(3-ethylbenzothiazoline-6-sulfonate) dye and dodecanesulfonate co-intercalated layered double hydroxide. Dyes and Pigments, 2012, 94, 74-80.	2.0	13
58	Electrochemiluminescence detection of reduced and oxidized glutathione ratio by quantum dot-layered double hydroxide film. Analyst, The, 2016, 141, 3305-3312.	1.7	13
59	Ultrathin Ni/V-layered double hydroxide nanosheets for efficient visible-light-driven photocatalytic nitrogen reduction to ammonia. Nano Research, 2021, 14, 3372-3378.	5.8	13
60	Recent Advances in Stimuli-Responsive Photofunctional Materials Based on Accommodation of Chromophore into Layered Double Hydroxide Nanogallery. Journal of Nanomaterials, 2013, 2013, 1-14.	1.5	12
61	Fluorescence enhancement strategy for evaluation of the minor groove binder DAPI to complementary ssDNA sequence including telomere mimics in (ssDNA@DAPI/LDH) ultrathin films. Dyes and Pigments, 2019, 166, 422-432.	2.0	12
62	Carbon-Defect-Driven Boron Carbide for Dual-Modal NIR-II/Photoacoustic Imaging and Photothermal Therapy. ACS Biomaterials Science and Engineering, 2021, 7, 3370-3378.	2.6	12
63	Amphiphilic CdTe Quantum Dots@Layered Double Hydroxides/Arachidate Nanocomposite Langmuirâ€“Blodgett Ultrathin Films: Its Assembly and Response Mechanism as VOC Fluorescence Sensors. Langmuir, 2018, 34, 11354-11363.	1.6	11
64	Assembly of neutral conjugated polymers with layered double hydroxide nanosheets by the layer-by-layer method. RSC Advances, 2016, 6, 94739-94747.	1.7	9
65	Two-dimensional confined electron donorâ€“acceptor co-intercalated inorganic/organic nanocomposites: an effective photocatalyst for dye degradation. RSC Advances, 2017, 7, 2789-2795.	1.7	8
66	Restrictionâ€Induced Luminescence Enhancement in 2D Interlayer Supramolecular Infinite Solid Solution for Cell Imaging. Advanced Optical Materials, 2020, 8, 1902019.	3.6	8
67	Preparation of Rh-TPPTS complex intercalated layered double hydroxide and influences of host and guest compositions on its catalytic performances in hydroformylation reaction. Science Bulletin, 2008, 53, 1329-1336.	4.3	7
68	Anionic stilbene intercalated layered double hydroxide with two-photon excited polarized photoemission. Chemical Engineering Journal, 2013, 225, 216-222.	6.6	7
69	8-Anilino-1-naphthalenesulfonate/Layered Double Hydroxide Ultrathin Films: Small Anion Assembly and Its Potential Application as a Fluorescent Biosensor. Langmuir, 2016, 32, 9015-9022.	1.6	7
70	Monochromatic light-enhanced photocatalytic CO₂ reduction based on exciton properties of two-dimensional lead halide perovskites. Dalton Transactions, 2022, 51, 8036-8045.	1.6	7
71	Novel Visible-Light Photodetector Based on Two-Dimensional Confined Electron Donorâ€“Acceptor Co-Assembled Layered Double Hydroxide Ultrathin Films. ACS Omega, 2016, 1, 1239-1246.	1.6	6
72	Layered Inorganic/Organic Hybrid (CdSe)_nÂ·Monoamine Nanobelts: Controllable Solvothermal Synthesis, Multiple Stage Amine De-Intercalation Transformation, and Two-Dimensional Exciton Quantum Confinement Effect. Inorganic Chemistry, 2018, 57, 10781-10790.	1.9	6

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73	Organic Electron Donorâ€Acceptor Coâ€intercalated NiMnâ€LDHs â€“ Photocatalysts with Enhanced Separation of Charge Carriers for Photocatalytic Reduction of CO₂. European Journal of Inorganic Chemistry, 2021, 2021, 620-627.	1.0	6
74	Function toggle of tumor microenvironment responsive nanoagent for highly efficient free radical stress enhanced chemodynamic therapy. Nano Research, 2022, 15, 8228-8236.	5.8	5
75	Visibleâ€Lightâ€Responsive TiO₂/NiFe Mixed Metal Oxideâ€Carbon Photocatalytic Fuel Cell with Synchronous Hydrogen Peroxide Production. European Journal of Inorganic Chemistry, 2021, 2021, 1230-1239.	1.0	4
76	MULTICOLOR LUMINESCENCE: Heterogeneous Transparent Ultrathin Films with Tunable-Color Luminescence Based on the Assembly of Photoactive Organic Molecules and Layered Double Hydroxides (Adv. Funct. Mater. 13/2011). Advanced Functional Materials, 2011, 21, 2496-2496.	7.8	2
77	Solar-charging Aqueous Redox Flow Battery with Optimal Redox Couple Combination. Chemistry Letters, 2020, 49, 248-251.	0.7	2
78	Photoresponsive thin films containing an azobenzene derivative intercalated with a layered double hydroxide. Science Bulletin, 2010, 55, 3894-3900.	1.7	1
79	A reversible pH-modified fluorescence transition in block copolymer micelles enwrapped with a zinc(<scp>ii</scp>) fluorescent complex. RSC Advances, 2016, 6, 45708-45715.	1.7	1
80	Sensors: A Luminescent Inorganic/Organic Composite Ultrathin Film Based on a 2D Cascade FRET Process and Its Potential VOC Selective Sensing Properties (Adv. Funct. Mater. 37/2016). Advanced Functional Materials, 2016, 26, 6751-6751.	7.8	0
81	Fabrication, assembly, and optoelectric properties of layered double hydroxide/conjugated polymer nanocomposites. , 2020, , 497-529.		0