Kay Latham

List of Publications by Year
in descending order

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69 papers	5,858 citations	126907 33 h-index	91884 69 g-index
71 all docs	71 docs citations	71 times ranked	9454 citing authors

#	Article	IF	Citations
1	Probing Nanoscale Interactions of Antimicrobial Zinc Oxide Quantum Dots on Bacterial and Fungal Cell Surfaces. Advanced Materials Interfaces, 2022, 9, .	3.7	11
2	Combining Chemometrics and Sensors: Toward New Applications in Monitoring and Environmental Analysis. Chemical Reviews, 2020, 120, 6048-6069.	47.7	68
3	Monodisperse and size-tunable PbS colloidal quantum dots via heterogeneous precursors. Journal of Materials Chemistry C, 2017, 5, 2182-2187.	5.5	34
4	Exfoliation of Quasi-Stratified Bi₂S₃ Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. Chemistry of Materials, 2016, 28, 8942-8950.	6.7	31
5	Highâ€Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. Advanced Functional Materials, 2016, 26, 91-100.	14.9	164
6	Highly Fluorescent Metalâ€“Organic Framework for the Sensing of Volatile Organic Compounds. Crystal Growth and Design, 2016, 16, 3067-3071.	3.0	81
7	Selective detection of nitrite ion by an AIE-active tetraphenylethene dye through a reduction step in aqueous media. RSC Advances, 2016, 6, 45009-45013.	3.6	20
8	Functional Naphthalene Diimides: Synthesis, Properties, and Applications. Chemical Reviews, 2016, 116, 11685-11796.	47.7	686
9	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. ACS Applied Materials & Interfaces, 2016, 8, 3482-3493.	8.0	111
10	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. Scientific Reports, 2015, 5, 11515.	3.3	12
11	Clathrate directed assembly of tetrapyridyl-tetraphenylethylene metalâ€“organic frameworks. RSC Advances, 2015, 5, 84134-84141.	3.6	20
12	Two-step synthesis of luminescent MoS₂â€“ZnS hybrid quantum dots. Nanoscale, 2015, 7, 16763-16772.	5.6	54
13	Additive manufacturing of strong and ductile Tiâ€“6Alâ€“4V by selective laser melting via in situ martensite decomposition. Acta Materialia, 2015, 85, 74-84.	7.9	897
14	Origin of surface trap states in CdS quantum dots: relationship between size dependent photoluminescence and sulfur vacancy trap states. Physical Chemistry Chemical Physics, 2015, 17, 2850-2858.	2.8	204
15	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS₂. Chemistry of Materials, 2015, 27, 53-59.	6.7	194
16	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO2 and CH4 gas permeation. Separation and Purification Technology, 2014, 122, 96-104.	7.9	128
17	Liquid Metal/Metal Oxide Frameworks. Advanced Functional Materials, 2014, 24, 3799-3807.	14.9	191
18	Two dimensional Î±-MoO3 nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H2 gas sensing. Sensors and Actuators B: Chemical, 2014, 192, 196-204.	7.8	190

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19	Organogelation and cytotoxic evolution of phosphonate ester functionalised hydrophobic alkanediamide motifs. Supramolecular Chemistry, 2014, 26, 873-881.	1.2	2
20	Silver nanoparticle/PDMS nanocomposite catalytic membranes for H 2 S gas removal. Journal of Membrane Science, 2014, 470, 346-355.	8.2	37
21	Tunable Plasmon Resonances in Twoâ€Dimensional Molybdenum Oxide Nanoflakes. Advanced Materials, 2014, 26, 3931-3937.	21.0	308
22	pH triggered self-assembly induced enhanced emission of phosphonic acid appended naphthalenediimide amphiphile. RSC Advances, 2014, 4, 40381-40384.	3.6	15
23	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. Nanoscale, 2014, 6, 12780-12791.	5.6	77
24	Donorâ€“Acceptorâ€“Donor Modular Small Organic Molecules Based on the Naphthalene Diimide Acceptor Unit for Solution-Processable Photovoltaic Devices. Journal of Electronic Materials, 2014, 43, 3243-3254.	2.2	17
25	Near-Infrared Absorbing Cu₁₂Sb₄S₁₃ and Cu₃SbS₄ Nanocrystals: Synthesis, Characterization, and Photoelectrochemistry. Journal of the American Chemical Society, 2013, 135, 11562-11571.	13.7	155
26	Reduced impurity-driven defect states in anodized nanoporous Nb2O5: the possibility of improving performance of photoanodes. Chemical Communications, 2013, 49, 6349.	4.1	28
27	Chemically synthesized one-dimensional zinc oxide nanorods for ethanol sensing. Sensors and Actuators B: Chemical, 2013, 187, 295-300.	7.8	52
28	Electrochemical Control of Photoluminescence in Two-Dimensional MoS₂ Nanoflakes. ACS Nano, 2013, 7, 10083-10093.	14.6	282
29	Nanostructured copper oxides as ethanol vapour sensors. Sensors and Actuators B: Chemical, 2013, 185, 620-627.	7.8	118
30	Facile synthesis of nanostructured WO3 thin films and their characterization for ethanol sensing. Materials Chemistry and Physics, 2013, 141, 912-919.	4.0	23
31	Silane: A new linker for chromophores in dye-sensitised solar cells. Polyhedron, 2013, 52, 719-732.	2.2	28
32	Interaction of hydrogen with ZnO nanopowdersâ€”evidence of hydroxyl group formation. Nanotechnology, 2012, 23, 015705.	2.6	38
33	Electrodeposited Î±- and Î²-Phase MoO₃ Films and Investigation of Their Gasochromic Properties. Crystal Growth and Design, 2012, 12, 1865-1870.	3.0	208
34	Classification and discrimination of some cosmetic face powders using XRF spectrometry with chemometric data analysis. X-Ray Spectrometry, 2012, 41, 410-415.	1.4	18
35	Lattice guiding for sputter deposition of single domain (Sr0.6Ba0.4)Nb2O6ferroelectric thin films. CrystEngComm, 2012, 14, 359-361.	2.6	3
36	Sb2Te3 and Bi2Te3 based thermopower wave sources. Energy and Environmental Science, 2011, 4, 3558.	30.8	71

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37	Facile, size-controlled deposition of highly dispersed gold nanoparticles on nitrogen carbon nanotubes for hydrogen sensing. Sensors and Actuators B: Chemical, 2011, 160, 1034-1042.	7.8	21
38	2-Picolinic acid and benzoic acid from di-2-pyridyl ketone and acetophenone: A case of two copper catalysed Baeyerâ€“Villiger rearrangements?. Inorganica Chimica Acta, 2011, 376, 628-633.	2.4	7
39	Interactions of guanidinium with benzene-sulphonic, -phosphonic and -arsonic acids and several of their nitro-derivatives. Journal of Molecular Structure, 2011, 987, 74-85.	3.6	6
40	Oscillatory Thermopower Waves Based on Bi₂Te₃ Films. Advanced Functional Materials, 2011, 21, 2072-2079.	14.9	58
41	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO3/SiC Schottky Diode. Sensor Letters, 2011, 9, 11-15.	0.4	19
42	Gas sensing properties of thermally evaporated lamellar MoO3. Sensors and Actuators B: Chemical, 2010, 145, 13-19.	7.8	264
43	Di(2â€pyridyl) Ketone Complexes of Cu^Iâ€•and Cu^{II}â€Containing Iodide and Thiocyanate Ligands: An Unusual Case of a Mixedâ€Aldol Condensation. European Journal of Inorganic Chemistry, 2010, 2010, 5660-5667.	2.0	15
44	Synthetic and Structural Studies on Copper 1â€‰Hâ€[1,10]â€Phenanthrolinâ€2â€one Coordination Complexes: Isolation of a Novel Intermediate During 1,10â€Phenanthroline Hydroxylation. Chemistry - A European Journal, 2010, 16, 1691-1696.	3.3	11
45	Pt/TiO<inf>2</inf> nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0
46	Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO₂ Sensing. Sensor Letters, 2009, 7, 621-628.	0.4	77
47	Nanoporous WO3 from anodized RF sputtered tungsten thin films. Electrochemistry Communications, 2009, 11, 768-771.	4.7	69
48	Synthesis, crystal structure and luminescent behaviour of coordination complexes of copper with bi- and tridentate amines and phosphonic acids. Inorganica Chimica Acta, 2009, 362, 1872-1886.	2.4	31
49	Fast formation of thick and transparent titania nanotubular films from sputtered Ti. Electrochemistry Communications, 2009, 11, 1308-1311.	4.7	40
50	High-Temperature Anodized WO₃ Nanoplatelet Films for Photosensitive Devices. Langmuir, 2009, 25, 9545-9551.	3.5	111
51	Anodization of Ti Thin Film Deposited on ITO. Langmuir, 2009, 25, 509-514.	3.5	89
52	Synthesis of supramolecular metallo-amine-oxy acid systems via crystal disassembly/reassembly. CrystEngComm, 2009, 11, 1343.	2.6	8
53	Electrowetting of Superhydrophobic ZnO Nanorods. Langmuir, 2008, 24, 5091-5098.	3.5	75
54	Effect of ring substituents on crystal packing and H-bonding in a series of halobis(phen)copper(II) arylphosphonic acid complexes. Polyhedron, 2007, 26, 222-236.	2.2	16

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55	Density Functional Theory Study of Hydrogen Bonding in Ionic Molecular Materials. Journal of Physical Chemistry B, 2006, 110, 19605-19610.	2.6	6
56	A comparison of the intramolecular and intermolecular hydrogen bonding of N,Nâ€²-ethylenebis(aminobenzylidene) in the solid state with its salen analogue. Journal of Molecular Structure, 2005, 737, 69-74.	3.6	14
57	Application of numerical basis sets to hydrogen bonded systems: A density functional theory study. Journal of Chemical Physics, 2005, 122, 144102.	3.0	122
58	Novel copper materials based on the self-assembly of organophosphonic acids and bidentate amines. CrystEngComm, 2005, 7, 28.	2.6	34
59	Supramolecular bidentate amine derivatives of copper(ii) organophosphonatesElectronic Supplementary Information (ESI) available: 3D images for compound 1 and compound 2. See http://www.rsc.org/suppdata/ce/b4/b400064a/. CrystEngComm, 2004, 6, 42.	2.6	28
60	Heterocyclic Amine Derivatives of Zinc Organophosphonates. Chemistry of Materials, 2004, 16, 2463-2470.	6.7	15
61	Quantum Monte Carlo Study of Water Molecule: A Preliminary Investigation. Australian Journal of Chemistry, 2004, 57, 1229.	0.9	3
62	Two polymorphs of bis(1,10-phenanthroline-Î²2N,Nâ€²)copper(I) iodide. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, m7-m9.	0.4	6
63	Ni-ZSM-5 and Cu-ZSM-5 Synthesized Directly from Aqueous Fluoride Gels. Chemistry of Materials, 2001, 13, 468-472.	6.7	49
64	Synthesis, further characterisation and catalytic activity of iron-substituted zeolite LTL, prepared using tetrahedral oxo-anion species. Microporous and Mesoporous Materials, 2000, 38, 333-344.	4.4	13
65	Isomorphous substitution of ruthenium in MFI framework using the oxo-anions ruthenate(vi) and perruthenate(vii). Journal of Materials Chemistry, 2000, 10, 1235-1240.	6.7	10
66	Calibration models for determining moisture and fat content of processed cheese using near-infrared spectrometry. Journal of the Science of Food and Agriculture, 1999, 79, 1232-1236.	3.5	24
67	The synthesis of iron cancrinite using tetrahedral iron species. Zeolites, 1996, 17, 513-516.	0.5	12
68	Isomorphous substitution of Fe3+ in LTL framework using potassium ferrate(VI). Zeolites, 1995, 15, 213-218.	0.5	17
69	Synthesis of zeolite omega in an alcohol-water system. Zeolites, 1994, 14, 529-532.	0.5	8