

# 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	Additive manufacturing of strong and ductile Ti-6Al-4V by selective laser melting via in situ martensite decomposition. <i>Acta Materialia</i> , 2015, 85, 74-84.	7.9	897
2	Functional Naphthalene Diimides: Synthesis, Properties, and Applications. <i>Chemical Reviews</i> , 2016, 116, 11685-11796.	47.7	686
3	Tunable Plasmon Resonances in Two-Dimensional Molybdenum Oxide Nanoflakes. <i>Advanced Materials</i> , 2014, 26, 3931-3937.	21.0	308
4	Electrochemical Control of Photoluminescence in Two-Dimensional MoS <sub>2</sub> Nanoflakes. <i>ACS Nano</i> , 2013, 7, 10083-10093.	14.6	282
5	Gas sensing properties of thermally evaporated lamellar MoO <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 13-19.	7.8	264
6	Electrodeposited $\hat{1}$ - and $\hat{2}$ -Phase MoO <sub>3</sub> Films and Investigation of Their Gasochromic Properties. <i>Crystal Growth and Design</i> , 2012, 12, 1865-1870.	3.0	208
7	Origin of surface trap states in CdS quantum dots: relationship between size dependent photoluminescence and sulfur vacancy trap states. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2850-2858.	2.8	204
8	Investigation of Two-Solvent Grinding-Assisted Liquid Phase Exfoliation of Layered MoS <sub>2</sub> . <i>Chemistry of Materials</i> , 2015, 27, 53-59.	6.7	194
9	Liquid Metal/Metal Oxide Frameworks. <i>Advanced Functional Materials</i> , 2014, 24, 3799-3807.	14.9	191
10	Two dimensional $\hat{1}$ -MoO <sub>3</sub> nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H <sub>2</sub> gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 196-204.	7.8	190
11	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. <i>Advanced Functional Materials</i> , 2016, 26, 91-100.	14.9	164
12	Near-Infrared Absorbing Cu <sub>12</sub> Sb <sub>4</sub> S <sub>13</sub> and Cu <sub>3</sub> SbS <sub>4</sub> Nanocrystals: Synthesis, Characterization, and Photoelectrochemistry. <i>Journal of the American Chemical Society</i> , 2013, 135, 11562-11571.	13.7	155
13	The effect of crosslinking temperature on the permeability of PDMS membranes: Evidence of extraordinary CO <sub>2</sub> and CH <sub>4</sub> gas permeation. <i>Separation and Purification Technology</i> , 2014, 122, 96-104.	7.9	128
14	Application of numerical basis sets to hydrogen bonded systems: A density functional theory study. <i>Journal of Chemical Physics</i> , 2005, 122, 144102.	3.0	122
15	Nanostructured copper oxides as ethanol vapour sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 620-627.	7.8	118
16	High-Temperature Anodized WO <sub>3</sub> Nanoplatelet Films for Photosensitive Devices. <i>Langmuir</i> , 2009, 25, 9545-9551.	3.5	111
17	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3482-3493.	8.0	111
18	Anodization of Ti Thin Film Deposited on ITO. <i>Langmuir</i> , 2009, 25, 509-514.	3.5	89

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19	Highly Fluorescent Metal-Organic Framework for the Sensing of Volatile Organic Compounds. <i>Crystal Growth and Design</i> , 2016, 16, 3067-3071.	3.0	81
20	Transition from n- to p-Type of Spray Pyrolysis Deposited Cu Doped ZnO Thin Films for NO <sub>2</sub> Sensing. <i>Sensor Letters</i> , 2009, 7, 621-628.	0.4	77
21	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. <i>Nanoscale</i> , 2014, 6, 12780-12791.	5.6	77
22	Electrowetting of Superhydrophobic ZnO Nanorods. <i>Langmuir</i> , 2008, 24, 5091-5098.	3.5	75
23	Sb <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> based thermopower wave sources. <i>Energy and Environmental Science</i> , 2011, 4, 3558.	30.8	71
24	Nanoporous WO <sub>3</sub> from anodized RF sputtered tungsten thin films. <i>Electrochemistry Communications</i> , 2009, 11, 768-771.	4.7	69
25	Combining Chemometrics and Sensors: Toward New Applications in Monitoring and Environmental Analysis. <i>Chemical Reviews</i> , 2020, 120, 6048-6069.	47.7	68
26	Oscillatory Thermopower Waves Based on Bi <sub>2</sub> Te <sub>3</sub> Films. <i>Advanced Functional Materials</i> , 2011, 21, 2072-2079.	14.9	58
27	Two-step synthesis of luminescent MoS <sub>2</sub> -ZnS hybrid quantum dots. <i>Nanoscale</i> , 2015, 7, 16763-16772.	5.6	54
28	Chemically synthesized one-dimensional zinc oxide nanorods for ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 295-300.	7.8	52
29	Ni-ZSM-5 and Cu-ZSM-5 Synthesized Directly from Aqueous Fluoride Gels. <i>Chemistry of Materials</i> , 2001, 13, 468-472.	6.7	49
30	Fast formation of thick and transparent titania nanotubular films from sputtered Ti. <i>Electrochemistry Communications</i> , 2009, 11, 1308-1311.	4.7	40
31	Interaction of hydrogen with ZnO nanopowders—evidence of hydroxyl group formation. <i>Nanotechnology</i> , 2012, 23, 015705.	2.6	38
32	Silver nanoparticle/PDMS nanocomposite catalytic membranes for H <sub>2</sub> S gas removal. <i>Journal of Membrane Science</i> , 2014, 470, 346-355.	8.2	37
33	Novel copper materials based on the self-assembly of organophosphonic acids and bidentate amines. <i>CrystEngComm</i> , 2005, 7, 28.	2.6	34
34	Monodisperse and size-tunable PbS colloidal quantum dots via heterogeneous precursors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2182-2187.	5.5	34
35	Synthesis, crystal structure and luminescent behaviour of coordination complexes of copper with bi- and tridentate amines and phosphonic acids. <i>Inorganica Chimica Acta</i> , 2009, 362, 1872-1886.	2.4	31
36	Exfoliation of Quasi-Stratified Bi <sub>2</sub> S <sub>3</sub> Crystals into Micron-Scale Ultrathin Corrugated Nanosheets. <i>Chemistry of Materials</i> , 2016, 28, 8942-8950.	6.7	31

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37	Supramolecular bidentate amine derivatives of copper(II) organophosphonates Electronic Supplementary Information (ESI) available: 3D images for compound 1 and compound 2. See <a href="http://www.rsc.org/suppdata/ce/b4/b400064a/">http://www.rsc.org/suppdata/ce/b4/b400064a/</a> . CrystEngComm, 2004, 6, 42.	2.6	28
38	Reduced impurity-driven defect states in anodized nanoporous Nb <sub>2</sub> O <sub>5</sub> : the possibility of improving performance of photoanodes. Chemical Communications, 2013, 49, 6349.	4.1	28
39	Silane: A new linker for chromophores in dye-sensitised solar cells. Polyhedron, 2013, 52, 719-732.	2.2	28
40	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
41	Facile synthesis of nanostructured WO <sub>3</sub> thin films and their characterization for ethanol sensing. Materials Chemistry and Physics, 2013, 141, 912-919.	4.0	23
42	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
43	Clathrate directed assembly of tetrapyrrolyl-tetraphenylethylene metal-organic frameworks. RSC Advances, 2015, 5, 84134-84141.	3.6	20
44	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
45	A Hydrogen Gas Sensor Based on Pt/Nanostructured WO <sub>3</sub> /SiC Schottky Diode. Sensor Letters, 2011, 9, 11-15.	0.4	19
46	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
47	Isomorphous substitution of Fe <sup>3+</sup> in LTL framework using potassium ferrate(VI). Zeolites, 1995, 15, 213-218.	0.5	17
48	Donor-Acceptor-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
49	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
50	Heterocyclic Amine Derivatives of Zinc Organophosphonates. Chemistry of Materials, 2004, 16, 2463-2470.	6.7	15
51	Di(2-pyridyl) Ketone Complexes of Cu <sup>I</sup> and Cu <sup>II</sup> Containing Iodide and Thiocyanate Ligands: An Unusual Case of a Mixed Aldol Condensation. European Journal of Inorganic Chemistry, 2010, 2010, 5660-5667.	2.0	15
52	pH triggered self-assembly induced enhanced emission of phosphonic acid appended naphthalenediimide amphiphile. RSC Advances, 2014, 4, 40381-40384.	3.6	15
53	A comparison of the intramolecular and intermolecular hydrogen bonding of N,N'-2-ethylenebis(aminobenzylidene) in the solid state with its salen analogue. Journal of Molecular Structure, 2005, 737, 69-74.	3.6	14
54	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

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55	The synthesis of iron cancrinite using tetrahedral iron species. <i>Zeolites</i> , 1996, 17, 513-516.	0.5	12
56	A unique in vivo approach for investigating antimicrobial materials utilizing fistulated animals. <i>Scientific Reports</i> , 2015, 5, 11515.	3.3	12
57	Synthetic and Structural Studies on Copper $\text{H}\{1,10\}$ -Phenanthroline $\text{Co}^{\text{II}}$ Coordination Complexes: Isolation of a Novel Intermediate During 1,10-Phenanthroline Hydroxylation. <i>Chemistry - A European Journal</i> , 2010, 16, 1691-1696.	3.3	11
58	Probing Nanoscale Interactions of Antimicrobial Zinc Oxide Quantum Dots on Bacterial and Fungal Cell Surfaces. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	11
59	Isomorphous substitution of ruthenium in MFI framework using the oxo-anions ruthenate(vi) and perruthenate(vii). <i>Journal of Materials Chemistry</i> , 2000, 10, 1235-1240.	6.7	10
60	Synthesis of zeolite omega in an alcohol-water system. <i>Zeolites</i> , 1994, 14, 529-532.	0.5	8
61	Synthesis of supramolecular metallo-amine-oxo acid systems via crystal disassembly/reassembly. <i>CrystEngComm</i> , 2009, 11, 1343.	2.6	8
62	2-Picolinic acid and benzoic acid from di-2-pyridyl ketone and acetophenone: A case of two copper catalysed Baeyer-Villiger rearrangements?. <i>Inorganica Chimica Acta</i> , 2011, 376, 628-633.	2.4	7
63	Two polymorphs of bis(1,10-phenanthroline- $\text{N},\text{N}$ )copper(I) iodide. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, m7-m9.	0.4	6
64	Density Functional Theory Study of Hydrogen Bonding in Ionic Molecular Materials. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19605-19610.	2.6	6
65	Interactions of guanidinium with benzene-sulphonic, -phosphonic and -arsonic acids and several of their nitro-derivatives. <i>Journal of Molecular Structure</i> , 2011, 987, 74-85.	3.6	6
66	Lattice guiding for sputter deposition of single domain (Sr <sub>0.6</sub> Ba <sub>0.4</sub> )Nb <sub>2</sub> O <sub>6</sub> ferroelectric thin films. <i>CrystEngComm</i> , 2012, 14, 359-361.	2.6	3
67	Quantum Monte Carlo Study of Water Molecule: A Preliminary Investigation. <i>Australian Journal of Chemistry</i> , 2004, 57, 1229.	0.9	3
68	Organogelation and cytotoxic evolution of phosphonate ester functionalised hydrophobic alkanediamide motifs. <i>Supramolecular Chemistry</i> , 2014, 26, 873-881.	1.2	2
69	Pt/TiO <sub>2</sub> /nanotubes/SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0