Kun Cao

List of Publications by Citations

52 papers	879 citations	21 h-index	28 g-index
55 ext. papers	1,156 ext. citations	6.1 avg, IF	4.74 L-index

#	Paper	IF	Citations
52	Review Article: Catalysts design and synthesis via selective atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2018**, 36, 010801	2.9	66
51	Controlled Synthesis of Pd/Pt Core Shell Nanoparticles Using Area-selective Atomic Layer Deposition. *Scientific Reports*, **2015**, 5, 8470	4.9	65
50	Bottom up Stabilization of CsPbBr3 Quantum Dots-Silica Sphere with Selective Surface Passivation via Atomic Layer Deposition. *Chemistry of Materials*, **2018**, 30, 8486-8494	9.6	55
49	Oxide-Nanotrap-Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area-Selective Atomic Layer Deposition. *Angewandte Chemie - International Edition*, **2017**, 56, 1648-1652	16.4	52
48	Nanofence Stabilized Platinum Nanoparticles Catalyst via Facet-Selective Atomic Layer Deposition. *Small*, **2017**, 13, 1700648	11	44
47	Inherently Selective Atomic Layer Deposition and Applications. *Chemistry of Materials*, **2020**, 32, 2195-2207	9.6	39
46	Selective Passivation of Pt Nanoparticles with Enhanced Sintering Resistance and Activity toward CO Oxidation via Atomic Layer Deposition. *ACS Applied Nano Materials*, **2018**, 1, 522-530	5.6	33
45	Macroporous SmMn2O5 mullite for NOx-assisted soot combustion. *Catalysis Science and Technology*, **2017**, 7, 838-847	5.5	32
44	Atomic Layer Deposition of Ni on Cu Nanoparticles for Methanol Synthesis from CO2 Hydrogenation. *ChemCatChem*, **2017**, 9, 3772-3778	5.2	30
43	Nickel catalyst with atomically-thin meshed cobalt coating for improved durability in dry reforming of methane. *Journal of Catalysis*, **2019**, 373, 351-360	7.3	28
42	Particle-Size-Dependent Methane Selectivity Evolution in Cobalt-Based Fischer□Tropsch Synthesis. *ACS Catalysis*, **2020**, 10, 2799-2816	13.1	27
41	Atomically decorating of MnOx on palladium nanoparticles towards selective oxidation of benzyl alcohol with high yield. *Journal of Catalysis*, **2020**, 386, 60-69	7.3	27
40	Atomically Controllable Pd@Pt Core□Shell Nanoparticles towards Preferential Oxidation of CO in Hydrogen Reactions Modulated by Platinum Shell Thickness. *ChemCatChem*, **2016**, 8, 326-330	5.2	23
39	Surface passivation of Fe3O4 nanoparticles with Al2O3 via atomic layer deposition in a rotating fluidized bed reactor. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 04C103	2.9	23
38	Edge-Selective Growth of MCp2 (M = Fe, Co, and Ni) Precursors on Pt Nanoparticles in Atomic Layer Deposition: A Combined Theoretical and Experimental Study. *Chemistry of Materials*, **2019**, 31, 101-111	9.6	23
37	Oxide-Nanotrap-Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area-Selective Atomic Layer Deposition. *Angewandte Chemie*, **2017**, 129, 1670-1674	3.6	22
36	Ultrathin CoO-modified hematite with low onset potential for solar water oxidation. *Physical Chemistry Chemical Physics*, **2017**, 19, 14178-14184	3.6	22

35	Tuning the morphology and composition of ultrathin cobalt oxide films via atomic layer deposition. *RSC Advances*, **2015**, 5, 71816-71823	3.7	22
34	Thin film encapsulation for the organic light-emitting diodes display via atomic layer deposition. *Journal of Materials Research*, **2020**, 35, 681-700	2.5	22
33	Atomic level deposition to extend Moore□ law and beyond. *International Journal of Extreme Manufacturing*, **2020**, 2, 022002	7.9	22
32	Dual-Shelled RbLi(Li SiO) :Eu @Al O @ODTMS Phosphor as a Stable Green Emitter for High-Power LED Backlights. *Angewandte Chemie - International Edition*, **2020**, 59, 12938-12943	16.4	21
31	Improved NO□O reactivity of highly dispersed Pt particles on CeO2 nanorod catalysts prepared by atomic layer deposition. *Catalysis Science and Technology*, **2019**, 9, 2664-2672	5.5	20
30	Surface functionalization on nanoparticles via atomic layer deposition. *Science Bulletin*, **2020**, 65, 678-688	10.6	18
29	Two-Step Hybrid Passivation Strategy for Ultrastable Photoluminescence Perovskite Nanocrystals. *Chemistry of Materials*, **2020**, 32, 10653-10662	9.6	17
28	Generalized Predictive Control of Temperature on an Atomic Layer Deposition Reactor. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 2408-2415	4.8	13
27	Interface Engineering of CsPbBr3 Nanocrystal Light-Emitting Diodes via Atomic Layer Deposition. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000083	2.5	13
26	Nanoscale Encapsulation of Perovskite Nanocrystal Luminescent Films via Plasma-Enhanced SiO Atomic Layer Deposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 53519-53527	9.5	12
25	Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications. *Advanced Optical Materials*, **2020**, 8, 1902118	8.1	12
24	Composite Encapsulation Films with Ultrahigh Barrier Performance for Improving the Reliability of Blue Organic Light-Emitting Diodes. *Advanced Materials Interfaces*, **2020**, 7, 2000237	4.6	9
23	Effect of Ni Content of Ni/□Al2O3 Catalysts Prepared by the Atomic Layer Deposition Method on CO2 Reforming of Methane. *Energy Technology*, **2019**, 7, 1800359	3.5	8
22	Highly dispersed Pt studded on CoOx nanoclusters for CO preferential oxidation in H2. *Journal of Materials Chemistry A*, **2020**, 8, 10180-10187	13	7
21	High Luminance and Stability of Perovskite Quantum Dot Light-Emitting Diodes via ZnBr2 Passivation and an Ultrathin Al2O3 Barrier with Improved Carrier Balance and Ion Diffusive Inhibition. *ACS Applied Electronic Materials*, **2021**, 3, 2362-2371	4	6
20	Flexible PDMS/Al2O3 Nanolaminates for the Encapsulation of Blue OLEDs. *Advanced Materials Interfaces*,2100872	4.6	5
19	Ellipsometry study on Pd thin film grown by atomic layer deposition with Maxwell□Garnett effective medium approximation model. *Thin Solid Films*, **2015**, 593, 144-149	2.2	4
18	Dual-Shelled RbLi(Li3SiO4)2:Eu2+@Al2O3@ODTMS Phosphor as a Stable Green Emitter for High-Power LED Backlights. *Angewandte Chemie*, **2020**, 132, 13038-13043	3.6	4

17	Unravelling the selective growth mechanism of AlOx with dimethylaluminum isopropoxide as a precursor in atomic layer deposition: a combined theoretical and experimental study. *Journal of Materials Chemistry A*, **2020**, 8, 4308-4317	13	4
16	Atomic Scale Composite Oxides Infiltration to Quantum Dot Photodetector with Ultralow Dark Current. *ACS Applied Electronic Materials*, **2020**, 2, 155-162	4	4
15	Bifunctionally faceted Pt/Ru nanoparticles for preferential oxidation of CO in H2. *Journal of Catalysis*, **2021**, 396, 148-156	7.3	4
14	A Predictive Instrument for Sensitive and Expedited Measurement of Ultra-Barrier Permeation. *Engineering*, **2021**,	9.7	4
13	Highly-stable PEN as a gas-barrier substrate for flexible displays atomic layer infiltration. *Dalton Transactions*, **2021**, 50, 16166-16175	4.3	3
12	Inherently Area-Selective Atomic Layer Deposition of Manganese Oxide through Electronegativity-Induced Adsorption. *Molecules*, **2021**, 26,	4.8	3
11	Stretchable PDMS Encapsulation via SiO 2 Doping and Atomic Layer Infiltration for Flexible Displays. *Advanced Materials Interfaces*,2101857	4.6	2
10	Dependence of inherent selective atomic layer deposition of FeOx on Pt nanoparticles on the coreactant and temperature. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 012404	2.9	2
9	Development of a scanning probe microscopy integrated atomic layer deposition system for successive monitoring of thin film growth. *Review of Scientific Instruments*, **2018**, 89, 123702	1.7	2
8	Computational fluid dynamics modeling of spatial atomic layer deposition on microgroove substrates. *International Journal of Heat and Mass Transfer*, **2021**, 181, 121854	4.9	2
7	Ellipsometry Study on Nanoparticles Grown by Atomic Layer Deposition. *Materials Research Society Symposia Proceedings*, **2013**, 1548, 1		1
6	Catalysts via Atomic Layer Deposition. *Molecular Catalysis*, **2020**, 69-105	0.3	1
5	Advances in Atomic Layer Deposition. *Nanomanufacturing and Metrology*,1	3.4	1
4	Quantum-Dot Luminescent Microspheres: Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications (Advanced Optical Materials 12/2020). *Advanced Optical Materials*, **2020**, 8, 2070048	8.1	
3	23.2: Invited Paper: Performance Boosting of Quantum Dots based LED via Atomic Layer Deposition. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 146-146	0.5	
2	28.3: Stabilization of photoluminescence perovskite nanocrystals via atomic layer deposition and the process influences. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 378-383	0.5	
1	Empirical Model and PSO-Based Algorithm for Efficient Measurement of Gas Permeation Through High Barrier. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-8	5.2	