

Kun Cao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Empirical Model and PSO-Based Algorithm for Efficient Measurement of Gas Permeation Through High Barrier. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-8	5.2	
51	Highly-stable PEN as a gas-barrier substrate for flexible displays atomic layer infiltration. <i>Dalton Transactions</i> , 2021 , 50, 16166-16175	4.3	3
50	Bifunctionally faceted Pt/Ru nanoparticles for preferential oxidation of CO in H ₂ . <i>Journal of Catalysis</i> , 2021 , 396, 148-156	7.3	4
49	A Predictive Instrument for Sensitive and Expedited Measurement of Ultra-Barrier Permeation. <i>Engineering</i> , 2021 ,	9.7	4
48	High Luminance and Stability of Perovskite Quantum Dot Light-Emitting Diodes via ZnBr ₂ Passivation and an Ultrathin Al ₂ O ₃ Barrier with Improved Carrier Balance and Ion Diffusive Inhibition. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2362-2371	4	6
47	Inherently Area-Selective Atomic Layer Deposition of Manganese Oxide through Electronegativity-Induced Adsorption. <i>Molecules</i> , 2021 , 26,	4.8	3
46	Dependence of inherent selective atomic layer deposition of FeOx on Pt nanoparticles on the coreactant and temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 012404	2.9	2
45	23.2: Invited Paper: Performance Boosting of Quantum Dots based LED via Atomic Layer Deposition. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 146-146	0.5	
44	28.3: Stabilization of photoluminescence perovskite nanocrystals via atomic layer deposition and the process influences. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 378-383	0.5	
43	Computational fluid dynamics modeling of spatial atomic layer deposition on microgroove substrates. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 181, 121854	4.9	2
42	Two-Step Hybrid Passivation Strategy for Ultrastable Photoluminescence Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2020 , 32, 10653-10662	9.6	17
41	Composite Encapsulation Films with Ultrahigh Barrier Performance for Improving the Reliability of Blue Organic Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000237	4.6	9
40	Quantum-Dot Luminescent Microspheres: Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications (Advanced Optical Materials 12/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070048	8.1	
39	Interface Engineering of CsPbBr ₃ Nanocrystal Light-Emitting Diodes via Atomic Layer Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000083	2.5	13
38	Inherently Selective Atomic Layer Deposition and Applications. <i>Chemistry of Materials</i> , 2020 , 32, 2195-2207	9.7	39
37	Surface functionalization on nanoparticles via atomic layer deposition. <i>Science Bulletin</i> , 2020 , 65, 678-688	10.6	18
36	Particle-Size-Dependent Methane Selectivity Evolution in Cobalt-Based Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2020 , 10, 2799-2816	13.1	27

35	Highly dispersed Pt studded on CoOx nanoclusters for CO preferential oxidation in H ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10180-10187	13	7
34	Dual-Shelled RbLi(Li ₃ SiO ₄) ₂ :Eu ²⁺ @Al ₂ O ₃ @ODTMS Phosphor as a Stable Green Emitter for High-Power LED Backlights. <i>Angewandte Chemie</i> , 2020 , 132, 13038-13043	3.6	4
33	Dual-Shelled RbLi(Li SiO) :Eu @Al O @ODTMS Phosphor as a Stable Green Emitter for High-Power LED Backlights. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12938-12943	16.4	21
32	Atomically decorating of MnOx on palladium nanoparticles towards selective oxidation of benzyl alcohol with high yield. <i>Journal of Catalysis</i> , 2020 , 386, 60-69	7.3	27
31	Catalysts via Atomic Layer Deposition. <i>Molecular Catalysis</i> , 2020 , 69-105	0.3	1
30	Unravelling the selective growth mechanism of AlOx with dimethylaluminum isopropoxide as a precursor in atomic layer deposition: a combined theoretical and experimental study. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4308-4317	13	4
29	Thin film encapsulation for the organic light-emitting diodes display via atomic layer deposition. <i>Journal of Materials Research</i> , 2020 , 35, 681-700	2.5	22
28	Atomic Scale Composite Oxides Infiltration to Quantum Dot Photodetector with Ultralow Dark Current. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 155-162	4	4
27	Nanoscale Encapsulation of Perovskite Nanocrystal Luminescent Films via Plasma-Enhanced SiO Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53519-53527	9.5	12
26	Atomic Layer Deposition Assisted Encapsulation of Quantum Dot Luminescent Microspheres toward Display Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 1902118	8.1	12
25	Atomic level deposition to extend Moore's law and beyond. <i>International Journal of Extreme Manufacturing</i> , 2020 , 2, 022002	7.9	22
24	Nickel catalyst with atomically-thin meshed cobalt coating for improved durability in dry reforming of methane. <i>Journal of Catalysis</i> , 2019 , 373, 351-360	7.3	28
23	Improved NO _x reactivity of highly dispersed Pt particles on CeO ₂ nanorod catalysts prepared by atomic layer deposition. <i>Catalysis Science and Technology</i> , 2019 , 9, 2664-2672	5.5	20
22	Effect of Ni Content of Ni/Al ₂ O ₃ Catalysts Prepared by the Atomic Layer Deposition Method on CO ₂ Reforming of Methane. <i>Energy Technology</i> , 2019 , 7, 1800359	3.5	8
21	Edge-Selective Growth of MCp ₂ (M = Fe, Co, and Ni) Precursors on Pt Nanoparticles in Atomic Layer Deposition: A Combined Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2019 , 31, 101-111	9.6	23
20	Selective Passivation of Pt Nanoparticles with Enhanced Sintering Resistance and Activity toward CO Oxidation via Atomic Layer Deposition. <i>ACS Applied Nano Materials</i> , 2018 , 1, 522-530	5.6	33
19	Review Article: Catalysts design and synthesis via selective atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 010801	2.9	66
18	Bottom up Stabilization of CsPbBr ₃ Quantum Dots-Silica Sphere with Selective Surface Passivation via Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2018 , 30, 8486-8494	9.6	55

17	Development of a scanning probe microscopy integrated atomic layer deposition system for successive monitoring of thin film growth. <i>Review of Scientific Instruments</i> , 2018 , 89, 123702	1.7	2
16	Oxide-Nanotrap-Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area-Selective Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1648-1652 ^{16.4}	5 ²	
15	Oxide-Nanotrap-Anchored Platinum Nanoparticles with High Activity and Sintering Resistance by Area-Selective Atomic Layer Deposition. <i>Angewandte Chemie</i> , 2017 , 129, 1670-1674	3.6	22
14	Macroporous SmMn2O5 mullite for NOx-assisted soot combustion. <i>Catalysis Science and Technology</i> , 2017 , 7, 838-847	5.5	32
13	Atomic Layer Deposition of Ni on Cu Nanoparticles for Methanol Synthesis from CO2 Hydrogenation. <i>ChemCatChem</i> , 2017 , 9, 3772-3778	5.2	30
12	Ultrathin CoO-modified hematite with low onset potential for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14178-14184	3.6	22
11	Nanofence Stabilized Platinum Nanoparticles Catalyst via Facet-Selective Atomic Layer Deposition. <i>Small</i> , 2017 , 13, 1700648	11	44
10	Atomically Controllable Pd@Pt Core/Shell Nanoparticles towards Preferential Oxidation of CO in Hydrogen Reactions Modulated by Platinum Shell Thickness. <i>ChemCatChem</i> , 2016 , 8, 326-330	5.2	23
9	Surface passivation of Fe3O4 nanoparticles with Al2O3 via atomic layer deposition in a rotating fluidized bed reactor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 04C103	2.9	23
8	Ellipsometry study on Pd thin film grown by atomic layer deposition with Maxwell-Garnett effective medium approximation model. <i>Thin Solid Films</i> , 2015 , 593, 144-149	2.2	4
7	Generalized Predictive Control of Temperature on an Atomic Layer Deposition Reactor. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2408-2415	4.8	13
6	Tuning the morphology and composition of ultrathin cobalt oxide films via atomic layer deposition. <i>RSC Advances</i> , 2015 , 5, 71816-71823	3.7	22
5	Controlled Synthesis of Pd/Pt Core Shell Nanoparticles Using Area-selective Atomic Layer Deposition. <i>Scientific Reports</i> , 2015 , 5, 8470	4.9	65
4	Ellipsometry Study on Nanoparticles Grown by Atomic Layer Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1548, 1		1
3	Stretchable PDMS Encapsulation via SiO2 Doping and Atomic Layer Infiltration for Flexible Displays. <i>Advanced Materials Interfaces</i> , 2101857	4.6	2
2	Flexible PDMS/Al2O3 Nanolaminates for the Encapsulation of Blue OLEDs. <i>Advanced Materials Interfaces</i> , 2100872	4.6	5
1	Advances in Atomic Layer Deposition. <i>Nanomanufacturing and Metrology</i> , 1	3.4	1