Stacey F Bent

List of Publications by Year
in descending order

298 papers	19,610 citations	10979 71 h-index	13758 129 g-index
310 all docs	310 docs citations	310 times ranked	18920 citing authors

#	Article	IF	Citations
1	Modulating the optoelectronic properties of hybrid Mo-thiolate thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	3
2	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. Nature Energy, 2022, 7, 94-106.	19.8	336
3	The Importance of Decarbonylation Mechanisms in the Atomic Layer Deposition of Highâ€Quality Ru Films by Zeroâ€Oxidation State Ru(DMBD)(CO)₃. Small, 2022, 18, e2105513.	5.2	5
4	Suspension electrolyte with modified Li+ solvation environment for lithium metal batteries. Nature Materials, 2022, 21, 445-454.	13.3	155
5	Methyl-methacrylate based aluminum hybrid film grown via three-precursor molecular layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 023405.	0.9	2
6	Steering CO ₂ hydrogenation toward Câ€“C coupling to hydrocarbons using porous organic polymer/metal interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
7	Tuning Molecular Inhibitors and Aluminum Precursors for the Area-Selective Atomic Layer Deposition of Al₂O₃. Chemistry of Materials, 2022, 34, 4646-4659.	3.2	15
8	Copper Oxidation Improves Dodecanethiol Blocking Ability in Areaâ€Selective Atomic Layer Deposition. Advanced Materials Interfaces, 2022, 9, .	1.9	2
9	Molecular Layer Deposition of a Hafnium-Based Hybrid Thin Film as an Electron Beam Resist. ACS Applied Materials & Interfaces, 2022, 14, 27140-27148.	4.0	11
10	Understanding and Utilizing Reactive Oxygen Reservoirs in Atomic Layer Deposition of Metal Oxides with Ozone. Chemistry of Materials, 2022, 34, 5584-5597.	3.2	4
11	Elucidating the Reaction Mechanism of Atomic Layer Deposition of Al₂O₃ with a Series of Al(CH₃)_{<i>x</i>}Cl_{3â€“<i>x</i>} and Al(C_{<i>y</i>}H_{2<i>y</i>+1})₃ Precursors. Journal of the American Chemical Society, 2022, 144, 11757-11766.	6.6	8
12	Electrical resistance of the current collector controls lithium morphology. Nature Communications, 2022, 13, .	5.8	20
13	An X-ray Photoelectron Spectroscopy Primer for Solid Electrolyte Interphase Characterization in Lithium Metal Anodes. ACS Energy Letters, 2022, 7, 2540-2546.	8.8	46
14	Identification of highly active surface iron sites on Ni(OOH) for the oxygen evolution reaction by atomic layer deposition. Journal of Catalysis, 2021, 394, 476-485.	3.1	8
15	Impurity Control in Catalyst Design: The Role of Sodium in Promoting and Stabilizing Co and Co₂C for Syngas Conversion. ChemCatChem, 2021, 13, 1186-1194.	1.8	6
16	Understanding Support Effects of ZnOâ€Promoted Co Catalysts for Syngas Conversion to Alcohols Using Atomic Layer Deposition. ChemCatChem, 2021, 13, 770-781.	1.8	4
17	Area-Selective Atomic Layer Deposition on Chemically Similar Materials: Achieving Selectivity on Oxide/Oxide Patterns. Chemistry of Materials, 2021, 33, 513-523.	3.2	31
18	Increased selectivity in area-selective ALD by combining nucleation enhancement and SAM-based inhibition. Journal of Materials Research, 2021, 36, 582-591.	1.2	6

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19	Multi-metal coordination polymers grown through hybrid molecular layer deposition. Dalton Transactions, 2021, 50, 4577-4582.	1.6	5
20	Bridging the Synthesis Gap: Ionic Liquids Enable Solvent-Mediated Reaction in Vapor-Phase Deposition. ACS Nano, 2021, 15, 3004-3014.	7.3	5
21	Area-Selective Molecular Layer Deposition of a Silicon Oxycarbide Low-<i>k</i> Dielectric. Chemistry of Materials, 2021, 33, 902-909.	3.2	13
22	Next generation nanopatterning using small molecule inhibitors for area-selective atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	46
23	Role of Precursor Choice on Area-Selective Atomic Layer Deposition. Chemistry of Materials, 2021, 33, 3926-3935.	3.2	30
24	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO₂ Conversion with Carbonâ€Based Materials. Angewandte Chemie - International Edition, 2021, 60, 17472-17480.	7.2	21
25	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO 2 Conversion with Carbonâ€Based Materials. Angewandte Chemie, 2021, 133, 17613-17621.	1.6	1
26	Resilient Women and the Resiliency of Science. Chemistry of Materials, 2021, 33, 6585-6588.	3.2	3
27	Tailoring the Surface of Metal Halide Perovskites to Enable the Atomic Layer Deposition of Metal Oxide Contacts. ACS Applied Energy Materials, 2021, 4, 9871-9880.	2.5	4
28	Identifying higher oxygenate synthesis sites in Cu catalysts promoted and stabilized by atomic layer deposited Fe2O3. Journal of Catalysis, 2021, 404, 210-223.	3.1	2
29	Monolayer Support Control and Precise Colloidal Nanocrystals Demonstrate Metalâ€"Support Interactions in Heterogeneous Catalysts. Advanced Materials, 2021, 33, e2104533.	11.1	13
30	Understanding Selectivity in CO2 Hydrogenation to Methanol for MoP Nanoparticle Catalysts Using In Situ Techniques. Catalysts, 2021, 11, 143.	1.6	11
31	Characterizing Self-Assembled Monolayer Breakdown in Area-Selective Atomic Layer Deposition. Langmuir, 2021, 37, 11637-11645.	1.6	15
32	Surface Energy Change of Atomic-Scale Metal Oxide Thin Films by Phase Transformation. ACS Nano, 2020, 14, 676-687.	7.3	10
33	Mechanistic Study of Nucleation Enhancement in Atomic Layer Deposition by Pretreatment with Small Organometallic Molecules. Chemistry of Materials, 2020, 32, 315-325.	3.2	32
34	Enhanced alcohol production over binary Mo/Co carbide catalysts in syngas conversion. Journal of Catalysis, 2020, 391, 446-458.	3.1	12
35	Substrate-Dependent Study of Chain Orientation and Order in Alkylphosphonic Acid Self-Assembled Monolayers for ALD Blocking. Langmuir, 2020, 36, 12849-12857.	1.6	17
36	Revealing and Elucidating ALDâ€Derived Control of Lithium Plating Microstructure. Advanced Energy Materials, 2020, 10, 2002736.	10.2	37

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37	Thermally Activated Reactions of Phenol at the Ge(100)-2 Ã— 1 Surface. Journal of Physical Chemistry C, 2020, 124, 23657-23660.	1.5	9
38	Modified atomic layer deposition of MoS2 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	14
39	Effect of Multilayer versus Monolayer Dodecanethiol on Selectivity and Pattern Integrity in Area-Selective Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2020, 12, 42226-42235.	4.0	24
40	Effect of Heteroaromaticity on Adsorption of Pyrazine on the Ge(100)-2Ã—1 Surface. Journal of Physical Chemistry C, 2020, 124, 22055-22068.	1.5	3
41	Atomic Layer Deposition of Pt on the Surface Deactivated by Fluorocarbon Implantation: Investigation of the Growth Mechanism. Chemistry of Materials, 2020, 32, 9696-9703.	3.2	8
42	Applications of atomic layer deposition and chemical vapor deposition for perovskite solar cells. Energy and Environmental Science, 2020, 13, 1997-2023.	15.6	102
43	The Molybdenum Oxide Interface Limits the High-Temperature Operational Stability of Unencapsulated Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2349-2360.	8.8	49
44	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. Joule, 2020, 4, 1759-1775.	11.7	284
45	Nucleation Effects in the Atomic Layer Deposition of Nickelâ€“Aluminum Oxide Thin Films. Chemistry of Materials, 2020, 32, 1925-1936.	3.2	15
46	Understanding chemical and physical mechanisms in atomic layer deposition. Journal of Chemical Physics, 2020, 152, 040902.	1.2	143
47	Synthesis of a Hybrid Nanostructure of ZnO-Decorated MoS₂ by Atomic Layer Deposition. ACS Nano, 2020, 14, 1757-1769.	7.3	29
48	The Influence of Ozone: Superstoichiometric Oxygen in Atomic Layer Deposition of Fe₂O₃ Using <i>tert</i>â€Butylferrocene and O₃. Advanced Materials Interfaces, 2020, 7, 2000318.	1.9	13
49	A Selective Toolbox for Nanofabrication. Chemistry of Materials, 2020, 32, 3323-3324.	3.2	19
50	Structurally Stable Manganese Alkoxide Films Grown by Hybrid Molecular Layer Deposition for Electrochemical Applications. Advanced Functional Materials, 2019, 29, 1904129.	7.8	14
51	Understanding Structureâ€“Property Relationships of MoO₃-Promoted Rh Catalysts for Syngas Conversion to Alcohols. Journal of the American Chemical Society, 2019, 141, 19655-19668.	6.6	41
52	Enhanced Nucleation of Atomic Layer Deposited Contacts Improves Operational Stability of Perovskite Solar Cells in Air. Advanced Energy Materials, 2019, 9, 1902353.	10.2	47
53	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. Nature, 2019, 570, 504-508.	13.7	1,006
54	Growth of a Surface-Tethered, All-Carbon Backboned Fluoropolymer by Photoactivated Molecular Layer Deposition. ACS Applied Materials & Interfaces, 2019, 11, 21988-21997.	4.0	13

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55	A Versatile Method for Ammonia Detection in a Range of Relevant Electrolytes via Direct Nuclear Magnetic Resonance Techniques. ACS Catalysis, 2019, 9, 5797-5802.	5.5	97
56	Opportunities for Atomic Layer Deposition in Emerging Energy Technologies. ACS Energy Letters, 2019, 4, 908-925.	8.8	81
57	The Role of Aluminum in Promoting Niâ€“Feâ€“OOH Electrocatalysts for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 3488-3499.	2.5	30
58	Atomic layer deposition of vanadium oxide to reduce parasitic absorption and improve stability in nâ€“iâ€“p perovskite solar cells for tandems. Sustainable Energy and Fuels, 2019, 3, 1517-1525.	2.5	76
59	Area-Selective Atomic Layer Deposition Assisted by Self-Assembled Monolayers: A Comparison of Cu, Co, W, and Ru. Chemistry of Materials, 2019, 31, 1635-1645.	3.2	122
60	Stability of Tin-Lead Halide Perovskite Solar Cells. , 2019, , .		0
61	Design of low bandgap tinâ€“lead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. Nature Energy, 2019, 4, 939-947.	19.8	235
62	Nanostructuring Strategies To Increase the Photoelectrochemical Water Splitting Activity of Silicon Photocathodes. ACS Applied Nano Materials, 2019, 2, 6-11.	2.4	19
63	Synthesis of Doped, Ternary, and Quaternary Materials by Atomic Layer Deposition: A Review. Chemistry of Materials, 2019, 31, 1142-1183.	3.2	179
64	Role of Co₂C in ZnOâ€promoted Co Catalysts for Alcohol Synthesis from Syngas. ChemCatChem, 2019, 11, 799-809.	1.8	26
65	Area-selective atomic layer deposition of dielectric-on-dielectric for Cu/low-k dielectric patterns. , 2019, , .		3
66	Atomic and Molecular Layer Deposition of Hybrid Moâ€“Thiolate Thin Films with Enhanced Catalytic Activity. Advanced Functional Materials, 2018, 28, 1800852.	7.8	32
67	Understanding the Active Sites of CO Hydrogenation on Ptâ€“Co Catalysts Prepared Using Atomic Layer Deposition. Journal of Physical Chemistry C, 2018, 122, 2184-2194.	1.5	29
68	The Role of Sodium in Tuning Product Distribution in Syngas Conversion by Rh Catalysts. Catalysis Letters, 2018, 148, 289-297.	1.4	12
69	Photoelectrochemical Water Oxidation by GaAs Nanowire Arrays Protected with Atomic Layer Deposited NiO x Electrocatalysts. Journal of Electronic Materials, 2018, 47, 932-937.	1.0	6
70	Area-Selective Atomic Layer Deposition of Metal Oxides on Noble Metals through Catalytic Oxygen Activation. Chemistry of Materials, 2018, 30, 663-670.	3.2	90
71	Thermal adsorption-enhanced atomic layer etching of Si3N4. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	24
72	<i>In situ</i> observation of phase changes of a silica-supported cobalt catalyst for the Fischerâ€“Tropsch process by the development of a synchrotron-compatible <i>inÂsitu/operando</i> powder X-ray diffraction cell. Journal of Synchrotron Radiation, 2018, 25, 1673-1682.	1.0	47

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73	Optical and Compositional Engineering of Wide Band Gap Perovskites with Improved Stability to Photoinduced Phase Segregation for Efficient Monolithic Perovskite/Silicon Tandem Solar Cells. , 2018, , .		0
74	Theoretical and Experimental Studies of CoGa Catalysts for the Hydrogenation of CO2 to Methanol. Catalysis Letters, 2018, 148, 3583-3591.	1.4	17
75	Interfacial Effects of Tin Oxide Atomic Layer Deposition in Metal Halide Perovskite Photovoltaics. Advanced Energy Materials, 2018, 8, 1800591.	10.2	62
76	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. Sustainable Energy and Fuels, 2018, 2, 2398-2406.	2.5	231
77	Formation and Ripening of Self-Assembled Multilayers from the Vapor-Phase Deposition of Dodecanethiol on Copper Oxide. Chemistry of Materials, 2018, 30, 5694-5703.	3.2	32
78	Tinâ€"lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. Sustainable Energy and Fuels, 2018, 2, 2450-2459.	2.5	167
79	Mechanistic Studies of Chain Termination and Monomer Absorption in Molecular Layer Deposition. Chemistry of Materials, 2018, 30, 5087-5097.	3.2	19
80	Molecular Layer Deposition of a Highly Stable Silicon Oxycarbide Thin Film Using an Organic Chlorosilane and Water. ACS Applied Materials & Interfaces, 2018, 10, 24266-24274.	4.0	27
81	Minimizing Current and Voltage Losses to Reach 25% Efficient Monolithic Two-Terminal Perovskiteâ€"Silicon Tandem Solar Cells. ACS Energy Letters, 2018, 3, 2173-2180.	8.8	194
82	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO₂. Angewandte Chemie - International Edition, 2018, 57, 15045-15050.	7.2	69
83	Copper interstitial recombination centers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>3</mml:mn></mm mathvariant="normal">N</mml:mi></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.3	18
84	Optical modeling of wide-bandgap perovskite and perovskite/silicon tandem solar cells using complex refractive indices for arbitrary-bandgap perovskite absorbers. Optics Express, 2018, 26, 27441.	1.7	102
85	23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. Nature Energy, 2017, 2, .	19.8	1,204
86	Nanoengineering Heterogeneous Catalysts by Atomic Layer Deposition. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 41-62.	3.3	80
87	Investigation of inherent differences between oxide supports in heterogeneous catalysis in the absence of structural variations. Journal of Catalysis, 2017, 351, 49-58.	3.1	23
88	Correcting defects in area selective molecular layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	21
89	Formation of Germa-ketenimine on the Ge(100) Surface by Adsorption of <i>tert</i>-Butyl Isocyanide. Journal of the American Chemical Society, 2017, 139, 8758-8765.	6.6	6
90	Adsorption of Homotrifunctional 1,2,3-Benzenetriol on a Ge(100)-2 Ã— 1 Surface. Langmuir, 2017, 33, 8716-8723.	1.6	6

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91	Effect of Backbone Chemistry on the Structure of Polyurea Films Deposited by Molecular Layer Deposition. Chemistry of Materials, 2017, 29, 1192-1203.	3.2	59
92	Buffer Layer Point Contacts for CIGS Solar Cells Using Nanosphere Lithography and Atomic Layer Deposition. IEEE Journal of Photovoltaics, 2017, 7, 322-328.	1.5	10
93	Incomplete elimination of precursor ligands during atomic layer deposition of zinc-oxide, tin-oxide, and zinc-tin-oxide. Journal of Chemical Physics, 2017, 146, 052802.	1.2	64
94	Autocatalytic Dissociative Adsorption of Imidazole on the Ge(100)-2 Ã— 1 Surface. Journal of Physical Chemistry C, 2017, 121, 20905-20910.	1.5	1
95	Photoactivated Molecular Layer Deposition through Iodoâ€"Ene Coupling Chemistry. Chemistry of Materials, 2017, 29, 9897-9906.	3.2	9
96	Chemisorption of Organic Triols on Ge(100)-2 Ã— 1 Surface: Effect of Backbone Structure on Adsorption of Trifunctional Molecules. Journal of Physical Chemistry C, 2017, 121, 25978-25985.	1.5	4
97	Rh-MnO Interface Sites Formed by Atomic Layer Deposition Promote Syngas Conversion to Higher Oxygenates. ACS Catalysis, 2017, 7, 5746-5757.	5.5	66
98	Improved light management in planar silicon and perovskite solar cells using PDMS scattering layer. Solar Energy Materials and Solar Cells, 2017, 173, 59-65.	3.0	82
99	Growth, intermixing, and surface phase formation for zinc tin oxide nanolaminates produced by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	18
100	Tailoring Mixed-Halide, Wide-Gap Perovskites via Multistep Conversion Process. ACS Applied Materials & Interfaces, 2016, 8, 14301-14306.	4.0	23
101	Recent Advances in Atomic Layer Deposition. Chemistry of Materials, 2016, 28, 1943-1947.	3.2	72
102	Sequential Regeneration of Selfâ€Assembled Monolayers for Highly Selective Atomic Layer Deposition. Advanced Materials Interfaces, 2016, 3, 1600464.	1.9	67
103	Molecular Ligands Control Superlattice Structure and Crystallite Orientation in Colloidal Quantum Dot Solids. Chemistry of Materials, 2016, 28, 7072-7081.	3.2	17
104	Impact of Conformality and Crystallinity for Ultrathin 4 nm Compact TiO₂ Layers in Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600580.	1.9	19
105	Tandem Coreâ€"Shell Siâ€"Ta₃N₅ Photoanodes for Photoelectrochemical Water Splitting. Nano Letters, 2016, 16, 7565-7572.	4.5	99
106	Selective Deposition of Dielectrics: Limits and Advantages of Alkanethiol Blocking Agents on Metalâ€"Dielectric Patterns. ACS Applied Materials & Interfaces, 2016, 8, 33264-33272.	4.0	82
107	Perovskite-perovskite tandem photovoltaics with optimized band gaps. Science, 2016, 354, 861-865.	6.0	1,107
108	Strong Coupling of Plasmon and Nanocavity Modes for Dual-Band, Near-Perfect Absorbers and Ultrathin Photovoltaics. ACS Photonics, 2016, 3, 456-463.	3.2	61

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109	Intrinsic Selectivity and Structure Sensitivity of Rhodium Catalysts for C₂₊ Oxygenate Production. Journal of the American Chemical Society, 2016, 138, 3705-3714.	6.6	179
110	A Process for Topographically Selective Deposition on 3D Nanostructures by Ion Implantation. ACS Nano, 2016, 10, 4451-4458.	7.3	78
111	Adsorption of heterobifunctional 4-nitrophenol on the Ge(100)-2 Ã— 1 surface. Surface Science, 2016, 650, 279-284.	0.8	2
112	Deep recombination centers in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>ZnSnS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>revealed by screened-exchange hybrid density functional theory. Physical Review B, 2015, 92, .	1.1	34
113	Reducing interface recombination for Cu(In,Ga)Se2 by atomic layer deposited buffer layers. Applied Physics Letters, 2015, 107, .	1.5	19
114	Polysulfide ligand exchange on zinc sulfide nanocrystal surfaces for improved film formation. Applied Surface Science, 2015, 359, 106-113.	3.1	21
115	Creating Highly Active Atomic Layer Deposited NiO Electrocatalysts for the Oxygen Evolution Reaction. Advanced Energy Materials, 2015, 5, 1500412.	10.2	217
116	Quantifying Geometric Strain at the PbS QD-TiO₂ Anode Interface and Its Effect on Electronic Structures. Nano Letters, 2015, 15, 7829-7836.	4.5	29
117	ALD of Ultrathin Ternary Oxide Electrocatalysts for Water Splitting. ACS Catalysis, 2015, 5, 1609-1616.	5.5	41
118	Improving Performance in Colloidal Quantum Dot Solar Cells by Tuning Band Alignment through Surface Dipole Moments. Journal of Physical Chemistry C, 2015, 119, 2996-3005.	1.5	58
119	Increased Quantum Dot Loading by pH Control Reduces Interfacial Recombination in Quantum-Dot-Sensitized Solar Cells. ACS Nano, 2015, 9, 8321-8334.	7.3	26
120	Atomic layer deposition in nanostructured photovoltaics: tuning optical, electronic and surface properties. Nanoscale, 2015, 7, 12266-12283.	2.8	73
121	Self-Correcting Process for High Quality Patterning by Atomic Layer Deposition. ACS Nano, 2015, 9, 8710-8717.	7.3	119
122	Unidirectional Adsorption of Bifunctional 1,4-Phenylene Diisocyanide on the Ge(100)-2 Ã— 1 Surface. Journal of Physical Chemistry Letters, 2015, 6, 1037-1041.	2.1	12
123	Applications of ALD MnO to electrochemical water splitting. Physical Chemistry Chemical Physics, 2015, 17, 14003-14011.	1.3	44
124	Formation of Continuous Pt Films on the Graphite Surface by Atomic Layer Deposition with Reactive O₃. Chemistry of Materials, 2015, 27, 6802-6809.	3.2	27
125	An atomic layer deposition chamber for in situ x-ray diffraction and scattering analysis. Review of Scientific Instruments, 2014, 85, 055116.	0.6	9
126	Thermally Activated Reactions of Nitrobenzene at the Ge(100)-2 Ã— 1 Surface. Journal of Physical Chemistry C, 2014, 118, 29224-29233.	1.5	5

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127	Bifacial solar cell with SnS absorber by vapor transport deposition. Applied Physics Letters, 2014, 105, .	1.5	30
128	Structural evolution of platinum thin films grown by atomic layer deposition. Journal of Applied Physics, 2014, 116, .	1.1	27
129	Highly Textured Tin(II) Sulfide Thin Films Formed from Sheetlike Nanocrystal Inks. Chemistry of Materials, 2014, 26, 7106-7113.	3.2	33
130	Thin film characterization of zinc tin oxide deposited by thermal atomic layer deposition. Thin Solid Films, 2014, 556, 186-194.	0.8	50
131	A New Resist for Area Selective Atomic and Molecular Layer Deposition on Metalâ€“Dielectric Patterns. Journal of Physical Chemistry C, 2014, 118, 10957-10962.	1.5	97
132	Interface Engineering in Inorganic-Absorber Nanostructured Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 348-360.	2.1	47
133	Improving Area-Selective Molecular Layer Deposition by Selective SAM Removal. ACS Applied Materials & Interfaces, 2014, 6, 17831-17836.	4.0	53
134	Strong Carbon-Surface Dative Bond Formation by <i>tert</i>-Butyl Isocyanide on the Ge(100)-2 Ã— 1 Surface. Journal of the American Chemical Society, 2014, 136, 5848-5851.	6.6	12
135	Selective metal deposition at graphene line defects by atomic layer deposition. Nature Communications, 2014, 5, 4781.	5.8	243
136	Coverage-Dependent Adsorption of Bifunctional Molecules: Detailed Insights into Interactions between Adsorbates. Journal of Physical Chemistry C, 2014, 118, 23811-23820.	1.5	20
137	Effect of O₃ on Growth of Pt by Atomic Layer Deposition. Journal of Physical Chemistry C, 2014, 118, 12325-12332.	1.5	41
138	Nanoscale Limitations in Metal Oxide Electrocatalysts for Oxygen Evolution. Nano Letters, 2014, 14, 5853-5857.	4.5	69
139	Correlating Growth Characteristics in Atomic Layer Deposition with Precursor Molecular Structure: The Case of Zinc Tin Oxide. Chemistry of Materials, 2014, 26, 2795-2802.	3.2	45
140	Nanostructuring Materials for Solar-to-Hydrogen Conversion. Journal of Physical Chemistry C, 2014, 118, 21301-21315.	1.5	40
141	A brief review of atomic layer deposition: from fundamentals to applications. Materials Today, 2014, 17, 236-246.	8.3	1,335
142	Vapor transport deposition and epitaxy of orthorhombic SnS on glass and NaCl substrates. Applied Physics Letters, 2013, 103, .	1.5	49
143	Self-Assembly Based Plasmonic Arrays Tuned by Atomic Layer Deposition for Extreme Visible Light Absorption. Nano Letters, 2013, 13, 3352-3357.	4.5	118
144	Competing geometric and electronic effects in adsorption of phenylenediamine structural isomers on the Ge(100)-2Ã—1 surface. Surface Science, 2013, 615, 72-79.	0.8	13

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145	Atomic layer deposition of CdO and CdxZn1âˆ’xO films. Materials Chemistry and Physics, 2013, 140, 465-471.	2.0	18
146	In Vacuo Photoemission Studies of Platinum Atomic Layer Deposition Using Synchrotron Radiation. Journal of Physical Chemistry Letters, 2013, 4, 176-179.	2.1	27
147	Semiconductor surface functionalization for advances in electronics, energy conversion, and dynamic systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	58
148	One-Dimensional Pattern Formation of Adsorbed Molecules on the Ge(100)-2 Ã— 1 Surface Driven by Nearest-Neighbor Effects. Journal of Physical Chemistry C, 2013, 117, 949-955.	1.5	8
149	Insights into the Surface Chemistry of Tin Oxide Atomic Layer Deposition from Quantum Chemical Calculations. Journal of Physical Chemistry C, 2013, 117, 19056-19062.	1.5	20
150	Tin oxide atomic layer deposition from tetrakis(dimethylamino)tin and water. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	82
151	Effects of QD surface coverage in solid-state PbS quantum dot-sensitized solar cells. , 2013, , .		2
152	Effect of Al₂O₃ Recombination Barrier Layers Deposited by Atomic Layer Deposition in Solid-State CdS Quantum Dot-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 5584-5592.	1.5	108
153	Growth of Pt Nanowires by Atomic Layer Deposition on Highly Ordered Pyrolytic Graphite. Nano Letters, 2013, 13, 457-463.	4.5	86
154	Efficiency enhancement of solid-state PbS quantum dot-sensitized solar cells with Al2O3 barrier layer. Journal of Materials Chemistry A, 2013, 1, 7566.	5.2	56
155	Size Dependent Effects in Nucleation of Ru and Ru Oxide Thin Films by Atomic Layer Deposition Measured by Synchrotron Radiation X-ray Diffraction. Chemistry of Materials, 2013, 25, 3458-3463.	3.2	25
156	Fabrication of organic interfacial layers by molecular layer deposition: Present status and future opportunities. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	112
157	Formation of Stable Nitrene Surface Species by the Reaction of Adsorbed Phenyl Isocyanate at the Ge(100)-2 Ã— 1 Surface. Langmuir, 2013, 29, 15842-15850.	1.6	8
158	Adsorption of Trimethyl Phosphite at the Ge(100)-2 Ã— 1 Surface by Nucleophilic Reaction. Journal of Physical Chemistry C, 2013, 117, 26628-26635.	1.5	10
159	TiO₂ Conduction Band Modulation with In₂O₃ Recombination Barrier Layers in Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 24138-24149.	1.5	30
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