Stacey F Bent

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.

280 papers	15,361 citations	63 h-index	114 g-index
310 ext. papers	17,332 ext. citations	8.7 avg, IF	7 L-index

#	Paper	IF	Citations
280	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. *Nature Energy*, **2022**, 7, 94-106	62.3	49
279	The Importance of Decarbonylation Mechanisms in the Atomic Layer Deposition of High-Quality Ru Films by Zero-Oxidation State Ru(DMBD)(CO).. *Small*, **2022**, e2105513	11	0
278	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	2.9	1
277	Steering CO hydrogenation toward C-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,	11.5	6
276	Modulating the optoelectronic properties of hybrid Mo-thiolate thin films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2022**, 40, 012402	2.9	1
275	Characterizing Self-Assembled Monolayer Breakdown in Area-Selective Atomic Layer Deposition. *Langmuir*, **2021**, 37, 11637-11645	4	6
274	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, 021002	2.9	14
273	Role of Precursor Choice on Area-Selective Atomic Layer Deposition. *Chemistry of Materials*, **2021**, 33, 3926-3935	9.6	10
272	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO Conversion with Carbon-Based Materials. *Angewandte Chemie - International Edition*, **2021**, 60, 17472-17480	16.4	5
271	Bridging Thermal Catalysis and Electrocatalysis: Catalyzing CO2 Conversion with Carbon-Based Materials. *Angewandte Chemie*, **2021**, 133, 17613-17621	3.6	1
270	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	7.3	1
269	Impurity Control in Catalyst Design: The Role of Sodium in Promoting and Stabilizing Co and Co2C for Syngas Conversion. *ChemCatChem*, **2021**, 13, 1186-1194	5.2	4
268	Understanding Support Effects of ZnO-Promoted Co Catalysts for Syngas Conversion to Alcohols Using Atomic Layer Deposition. *ChemCatChem*, **2021**, 13, 770-781	5.2	2
267	Area-Selective Atomic Layer Deposition on Chemically Similar Materials: Achieving Selectivity on Oxide/Oxide Patterns. *Chemistry of Materials*, **2021**, 33, 513-523	9.6	16
266	Increased selectivity in area-selective ALD by combining nucleation enhancement and SAM-based inhibition. *Journal of Materials Research*, **2021**, 36, 582-591	2.5	2
265	Multi-metal coordination polymers grown through hybrid molecular layer deposition. *Dalton Transactions*, **2021**, 50, 4577-4582	4.3	3
264	Bridging the Synthesis Gap: Ionic Liquids Enable Solvent-Mediated Reaction in Vapor-Phase Deposition. *ACS Nano*, **2021**, 15, 3004-3014	16.7	1

263	Area-Selective Molecular Layer Deposition of a Silicon Oxycarbide Low-k Dielectric. *Chemistry of Materials*, **2021**, 33, 902-909	9.6	9
262	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	6.1	0
261	Identifying Higher Oxygenate Synthesis Sites in Cu Catalysts Promoted and Stabilized by Atomic Layer Deposited Fe2O3. *Journal of Catalysis*, **2021**, 404, 210-210	7.3	0
260	Monolayer Support Control and Precise Colloidal Nanocrystals Demonstrate Metal-Support Interactions in Heterogeneous Catalysts. *Advanced Materials*, **2021**, 33, e2104533	24	4
259	Understanding Selectivity in CO2 Hydrogenation to Methanol for MoP Nanoparticle Catalysts Using In Situ Techniques. *Catalysts*, **2021**, 11, 143	4	5
258	Atomic Layer Deposition of Pt on the Surface Deactivated by Fluorocarbon Implantation: Investigation of the Growth Mechanism. *Chemistry of Materials*, **2020**, 32, 9696-9703	9.6	7
257	Applications of atomic layer deposition and chemical vapor deposition for perovskite solar cells. *Energy and Environmental Science*, **2020**, 13, 1997-2023	35.4	50
256	The Molybdenum Oxide Interface Limits the High-Temperature Operational Stability of Unencapsulated Perovskite Solar Cells. *ACS Energy Letters*, **2020**, 5, 2349-2360	20.1	31
255	Overcoming Redox Reactions at Perovskite-Nickel Oxide Interfaces to Boost Voltages in Perovskite Solar Cells. *Joule*, **2020**, 4, 1759-1775	27.8	121
254	Nucleation Effects in the Atomic Layer Deposition of Nickel‐Aluminum Oxide Thin Films. *Chemistry of Materials*, **2020**, 32, 1925-1936	9.6	11
253	Understanding chemical and physical mechanisms in atomic layer deposition. *Journal of Chemical Physics*, **2020**, 152, 040902	3.9	70
252	Synthesis of a Hybrid Nanostructure of ZnO-Decorated MoS by Atomic Layer Deposition. *ACS Nano*, **2020**, 14, 1757-1769	16.7	16
251	The Influence of Ozone: Superstoichiometric Oxygen in Atomic Layer Deposition of Fe2O3 Using tert-Butylferrocene and O3. *Advanced Materials Interfaces*, **2020**, 7, 2000318	4.6	6
250	Surface Energy Change of Atomic-Scale Metal Oxide Thin Films by Phase Transformation. *ACS Nano*, **2020**, 14, 676-687	16.7	5
249	Mechanistic Study of Nucleation Enhancement in Atomic Layer Deposition by Pretreatment with Small Organometallic Molecules. *Chemistry of Materials*, **2020**, 32, 315-325	9.6	15
248	Enhanced alcohol production over binary Mo/Co carbide catalysts in syngas conversion. *Journal of Catalysis*, **2020**, 391, 446-458	7.3	7
247	Substrate-Dependent Study of Chain Orientation and Order in Alkylphosphonic Acid Self-Assembled Monolayers for ALD Blocking. *Langmuir*, **2020**, 36, 12849-12857	4	5
246	Revealing and Elucidating ALD-Derived Control of Lithium Plating Microstructure. *Advanced Energy Materials*, **2020**, 10, 2002736	21.8	12

245	Thermally Activated Reactions of Phenol at the Ge(100)-2 1 Surface. *Journal of Physical Chemistry C*, **2020**, 124, 23657-23660	3.8	2
244	Modified atomic layer deposition of MoS2 thin films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2020**, 38, 060403	2.9	4
243	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	9.5	12
242	Effect of Heteroaromaticity on Adsorption of Pyrazine on the Ge(100)-21 Surface. *Journal of Physical Chemistry C*, **2020**, 124, 22055-22068	3.8	1
241	A rigorous electrochemical ammonia synthesis protocol with quantitative isotope measurements. *Nature*, **2019**, 570, 504-508	50.4	617
240	Growth of a Surface-Tethered, All-Carbon Backboned Fluoropolymer by Photoactivated Molecular Layer Deposition. *ACS Applied Materials & Interfaces*, **2019**, 11, 21988-21997	9.5	6
239	A Versatile Method for Ammonia Detection in a Range of Relevant Electrolytes via Direct Nuclear Magnetic Resonance Techniques. *ACS Catalysis*, **2019**, 9, 5797-5802	13.1	54
238	Opportunities for Atomic Layer Deposition in Emerging Energy Technologies. *ACS Energy Letters*, **2019**, 4, 908-925	20.1	52
237	The Role of Aluminum in Promoting NiFeOOH Electrocatalysts for the Oxygen Evolution Reaction. *ACS Applied Energy Materials*, **2019**, 2, 3488-3499	6.1	15
236	Atomic layer deposition of vanadium oxide to reduce parasitic absorption and improve stability in nip perovskite solar cells for tandems. *Sustainable Energy and Fuels*, **2019**, 3, 1517-1525	5.8	52
235	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	9.6	73
234	Structurally Stable Manganese Alkoxide Films Grown by Hybrid Molecular Layer Deposition for Electrochemical Applications. *Advanced Functional Materials*, **2019**, 29, 1904129	15.6	11
233	Understanding Structure-Property Relationships of MoO-Promoted Rh Catalysts for Syngas Conversion to Alcohols. *Journal of the American Chemical Society*, **2019**, 141, 19655-19668	16.4	16
232	Enhanced Nucleation of Atomic Layer Deposited Contacts Improves Operational Stability of Perovskite Solar Cells in Air. *Advanced Energy Materials*, **2019**, 9, 1902353	21.8	28
231	Area-selective atomic layer deposition of dielectric-on-dielectric for Cu/low-k dielectric patterns **2019**,		3
230	Design of low bandgap tinlead halide perovskite solar cells to achieve thermal, atmospheric and operational stability. *Nature Energy*, **2019**, 4, 939-947	62.3	152
229	Nanostructuring Strategies To Increase the Photoelectrochemical Water Splitting Activity of Silicon Photocathodes. *ACS Applied Nano Materials*, **2019**, 2, 6-11	5.6	14
228	Synthesis of Doped, Ternary, and Quaternary Materials by Atomic Layer Deposition: A Review. *Chemistry of Materials*, **2019**, 31, 1142-1183	9.6	117

227	Role of Co2C in ZnO-promoted Co Catalysts for Alcohol Synthesis from Syngas. *ChemCatChem*, **2019**, 11, 799-809	5.2	19
226	Atomic and Molecular Layer Deposition of Hybrid Mo-Thiolate Thin Films with Enhanced Catalytic Activity. *Advanced Functional Materials*, **2018**, 28, 1800852	15.6	28
225	Understanding the Active Sites of CO Hydrogenation on Pt-Co Catalysts Prepared Using Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2018**, 122, 2184-2194	3.8	21
224	The Role of Sodium in Tuning Product Distribution in Syngas Conversion by Rh Catalysts. *Catalysis Letters*, **2018**, 148, 289-297	2.8	10
223	Photoelectrochemical Water Oxidation by GaAs Nanowire Arrays Protected with Atomic Layer Deposited NiO x Electrocatalysts. *Journal of Electronic Materials*, **2018**, 47, 932-937	1.9	6
222	Formation and Ripening of Self-Assembled Multilayers from the Vapor-Phase Deposition of Dodecanethiol on Copper Oxide. *Chemistry of Materials*, **2018**, 30, 5694-5703	9.6	20
221	Tin-Lead halide perovskites with improved thermal and air stability for efficient all-perovskite tandem solar cells. *Sustainable Energy and Fuels*, **2018**, 2, 2450-2459	5.8	127
220	Mechanistic Studies of Chain Termination and Monomer Absorption in Molecular Layer Deposition. *Chemistry of Materials*, **2018**, 30, 5087-5097	9.6	13
219	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	9.5	19
218	Minimizing Current and Voltage Losses to Reach 25% Efficient Monolithic Two-Terminal Perovskite-Silicon Tandem Solar Cells. *ACS Energy Letters*, **2018**, 3, 2173-2180	20.1	143
217	A Highly Active Molybdenum Phosphide Catalyst for Methanol Synthesis from CO and CO. *Angewandte Chemie - International Edition*, **2018**, 57, 15045-15050	16.4	46
216	Copper interstitial recombination centers in Cu3N. *Physical Review B*, **2018**, 97,	3.3	11
215	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, 27441-27460	3.3	56
214	Area-Selective Atomic Layer Deposition of Metal Oxides on Noble Metals through Catalytic Oxygen Activation. *Chemistry of Materials*, **2018**, 30, 663-670	9.6	72
213	Thermal adsorption-enhanced atomic layer etching of Si3N4. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2018**, 36, 01B104	2.9	17
212	In situ observation of phase changes of a silica-supported cobalt catalyst for the Fischer-Tropsch process by the development of a synchrotron-compatible in situ/operando powder X-ray diffraction cell. *Journal of Synchrotron Radiation*, **2018**, 25, 1673-1682	2.4	28
211	Theoretical and Experimental Studies of CoGa Catalysts for the Hydrogenation of CO2 to Methanol. *Catalysis Letters*, **2018**, 148, 3583-3591	2.8	9
210	Interfacial Effects of Tin Oxide Atomic Layer Deposition in Metal Halide Perovskite Photovoltaics. *Advanced Energy Materials*, **2018**, 8, 1800591	21.8	44

209	Encapsulating perovskite solar cells to withstand damp heat and thermal cycling. *Sustainable Energy and Fuels*, **2018**, 2, 2398-2406	5.8	157
208	23.6%-efficient monolithic perovskite/silicon tandem solar cells with improved stability. *Nature Energy*, **2017**, 2,	62.3	965
207	Nanoengineering Heterogeneous Catalysts by Atomic Layer Deposition. *Annual Review of Chemical and Biomolecular Engineering*, **2017**, 8, 41-62	8.9	68
206	Investigation of inherent differences between oxide supports in heterogeneous catalysis in the absence of structural variations. *Journal of Catalysis*, **2017**, 351, 49-58	7.3	18
205	Correcting defects in area selective molecular layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2017**, 35, 031509	2.9	20
204	Formation of Germa-ketenimine on the Ge(100) Surface by Adsorption of tert-Butyl Isocyanide. *Journal of the American Chemical Society*, **2017**, 139, 8758-8765	16.4	5
203	Adsorption of Homotrifunctional 1,2,3-Benzenetriol on a Ge(100)-2 □1 Surface. *Langmuir*, **2017**, 33, 8716-8723	4	6
202	Effect of Backbone Chemistry on the Structure of Polyurea Films Deposited by Molecular Layer Deposition. *Chemistry of Materials*, **2017**, 29, 1192-1203	9.6	46
201	Buffer Layer Point Contacts for CIGS Solar Cells Using Nanosphere Lithography and Atomic Layer Deposition. *IEEE Journal of Photovoltaics*, **2017**, 7, 322-328	3.7	10
200	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	3.9	49
199	Autocatalytic Dissociative Adsorption of Imidazole on the Ge(100)-2 □1 Surface. *Journal of Physical Chemistry C*, **2017**, 121, 20905-20910	3.8	1
198	Photoactivated Molecular Layer Deposition through Iodo□Ene Coupling Chemistry. *Chemistry of Materials*, **2017**, 29, 9897-9906	9.6	8
197	Chemisorption of Organic Triols on Ge(100)-2 □1 Surface: Effect of Backbone Structure on Adsorption of Trifunctional Molecules. *Journal of Physical Chemistry C*, **2017**, 121, 25978-25985	3.8	3
196	Rh-MnO Interface Sites Formed by Atomic Layer Deposition Promote Syngas Conversion to Higher Oxygenates. *ACS Catalysis*, **2017**, 7, 5746-5757	13.1	49
195	Improved light management in planar silicon and perovskite solar cells using PDMS scattering layer. *Solar Energy Materials and Solar Cells*, **2017**, 173, 59-65	6.4	56
194	Adsorption of heterobifunctional 4-nitrophenol on the Ge(100)-2 □1 surface. *Surface Science*, **2016**, 650, 279-284	1.8	1
193	Molecular Ligands Control Superlattice Structure and Crystallite Orientation in Colloidal Quantum Dot Solids. *Chemistry of Materials*, **2016**, 28, 7072-7081	9.6	13
192	Impact of Conformality and Crystallinity for Ultrathin 4 nm Compact TiO2 Layers in Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600580	4.6	18

191	Tandem Core-Shell Si-TaN Photoanodes for Photoelectrochemical Water Splitting. *Nano Letters*, **2016**, 16, 7565-7572	11.5	86
190	Selective Deposition of Dielectrics: Limits and Advantages of Alkanethiol Blocking Agents on Metal-Dielectric Patterns. *ACS Applied Materials & Interfaces*, **2016**, 8, 33264-33272	9.5	62
189	Perovskite-perovskite tandem photovoltaics with optimized band gaps. *Science*, **2016**, 354, 861-865	33.3	865
188	Strong Coupling of Plasmon and Nanocavity Modes for Dual-Band, Near-Perfect Absorbers and Ultrathin Photovoltaics. *ACS Photonics*, **2016**, 3, 456-463	6.3	47
187	Intrinsic Selectivity and Structure Sensitivity of Rhodium Catalysts for C(2+) Oxygenate Production. *Journal of the American Chemical Society*, **2016**, 138, 3705-14	16.4	137
186	A Process for Topographically Selective Deposition on 3D Nanostructures by Ion Implantation. *ACS Nano*, **2016**, 10, 4451-8	16.7	67
185	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, 021516	2.9	17
184	Tailoring Mixed-Halide, Wide-Gap Perovskites via Multistep Conversion Process. *ACS Applied Materials & Interfaces*, **2016**, 8, 14301-6	9.5	23
183	Sequential Regeneration of Self-Assembled Monolayers for Highly Selective Atomic Layer Deposition. *Advanced Materials Interfaces*, **2016**, 3, 1600464	4.6	56
182	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	3.8	50
181	Increased Quantum Dot Loading by pH Control Reduces Interfacial Recombination in Quantum-Dot-Sensitized Solar Cells. *ACS Nano*, **2015**, 9, 8321-34	16.7	23
180	Atomic layer deposition in nanostructured photovoltaics: tuning optical, electronic and surface properties. *Nanoscale*, **2015**, 7, 12266-83	7.7	59
179	Self-Correcting Process for High Quality Patterning by Atomic Layer Deposition. *ACS Nano*, **2015**, 9, 8710-7	16.7	94
178	Unidirectional Adsorption of Bifunctional 1,4-Phenylene Diisocyanide on the Ge(100)-2 1 Surface. *Journal of Physical Chemistry Letters*, **2015**, 6, 1037-41	6.4	12
177	Applications of ALD MnO to electrochemical water splitting. *Physical Chemistry Chemical Physics*, **2015**, 17, 14003-11	3.6	40
176	Formation of Continuous Pt Films on the Graphite Surface by Atomic Layer Deposition with Reactive O3. *Chemistry of Materials*, **2015**, 27, 6802-6809	9.6	24
175	Deep recombination centers in Cu2ZnSnSe4 revealed by screened-exchange hybrid density functional theory. *Physical Review B*, **2015**, 92,	3.3	28
174	Reducing interface recombination for Cu(In,Ga)Se2 by atomic layer deposited buffer layers. *Applied Physics Letters*, **2015**, 107, 033906	3.4	19

173	Polysulfide ligand exchange on zinc sulfide nanocrystal surfaces for improved film formation. *Applied Surface Science*, **2015**, 359, 106-113	6.7	13
172	Creating Highly Active Atomic Layer Deposited NiO Electrocatalysts for the Oxygen Evolution Reaction. *Advanced Energy Materials*, **2015**, 5, 1500412	21.8	168
171	Fabrication of Organic Interfacial Layers by Molecular Layer Deposition: Present Status and Future Opportunities **2015**, 133-170		
170	Quantifying Geometric Strain at the PbS QD-TiO$_2$ Anode Interface and Its Effect on Electronic Structures. *Nano Letters*, **2015**, 15, 7829-36	11.5	24
169	ALD of Ultrathin Ternary Oxide Electrocatalysts for Water Splitting. *ACS Catalysis*, **2015**, 5, 1609-1616	13.1	37
168	Thin film characterization of zinc tin oxide deposited by thermal atomic layer deposition. *Thin Solid Films*, **2014**, 556, 186-194	2.2	42
167	A New Resist for Area Selective Atomic and Molecular Layer Deposition on Metal–Dielectric Patterns. *Journal of Physical Chemistry C*, **2014**, 118, 10957-10962	3.8	75
166	Interface Engineering in Inorganic-Absorber Nanostructured Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 348-60	6.4	45
165	Improving area-selective molecular layer deposition by selective SAM removal. *ACS Applied Materials & Interfaces*, **2014**, 6, 17831-6	9.5	46
164	Strong carbon-surface dative bond formation by tert-butyl isocyanide on the Ge(100)-2 × 1 surface. *Journal of the American Chemical Society*, **2014**, 136, 5848-51	16.4	10
163	Selective metal deposition at graphene line defects by atomic layer deposition. *Nature Communications*, **2014**, 5, 4781	17.4	196
162	Coverage-Dependent Adsorption of Bifunctional Molecules: Detailed Insights into Interactions between Adsorbates. *Journal of Physical Chemistry C*, **2014**, 118, 23811-23820	3.8	19
161	Effect of O3 on Growth of Pt by Atomic Layer Deposition. *Journal of Physical Chemistry C*, **2014**, 118, 12325-12332	3.8	36
160	Nanoscale limitations in metal oxide electrocatalysts for oxygen evolution. *Nano Letters*, **2014**, 14, 5853-7	11.5	62
159	Correlating Growth Characteristics in Atomic Layer Deposition with Precursor Molecular Structure: The Case of Zinc Tin Oxide. *Chemistry of Materials*, **2014**, 26, 2795-2802	9.6	37
158	Nanostructuring Materials for Solar-to-Hydrogen Conversion. *Journal of Physical Chemistry C*, **2014**, 118, 21301-21315	3.8	37
157	A brief review of atomic layer deposition: from fundamentals to applications. *Materials Today*, **2014**, 17, 236-246	21.8	981
156	An atomic layer deposition chamber for in situ x-ray diffraction and scattering analysis. *Review of Scientific Instruments*, **2014**, 85, 055116	1.7	9

155	Thermally Activated Reactions of Nitrobenzene at the Ge(100)-2 ×1 Surface. *Journal of Physical Chemistry C*, **2014**, 118, 29224-29233	3.8	5
154	Bifacial solar cell with SnS absorber by vapor transport deposition. *Applied Physics Letters*, **2014**, 105, 173904	3.4	25
153	Structural evolution of platinum thin films grown by atomic layer deposition. *Journal of Applied Physics*, **2014**, 116, 064905	2.5	25
152	Highly Textured Tin(II) Sulfide Thin Films Formed from Sheetlike Nanocrystal Inks. *Chemistry of Materials*, **2014**, 26, 7106-7113	9.6	31
151	Vapor transport deposition and epitaxy of orthorhombic SnS on glass and NaCl substrates. *Applied Physics Letters*, **2013**, 103, 052105	3.4	40
150	Self-assembly based plasmonic arrays tuned by atomic layer deposition for extreme visible light absorption. *Nano Letters*, **2013**, 13, 3352-7	11.5	104
149	Competing geometric and electronic effects in adsorption of phenylenediamine structural isomers on the Ge(100)-2×1 surface. *Surface Science*, **2013**, 615, 72-79	1.8	13
148	Atomic layer deposition of CdO and CdxZn1-xO films. *Materials Chemistry and Physics*, **2013**, 140, 465-471	4.4	14
147	In Vacuo Photoemission Studies of Platinum Atomic Layer Deposition Using Synchrotron Radiation. *Journal of Physical Chemistry Letters*, **2013**, 4, 176-9	6.4	25
146	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, 050810	2.9	51
145	One-Dimensional Pattern Formation of Adsorbed Molecules on the Ge(100)-2 ×1 Surface Driven by Nearest-Neighbor Effects. *Journal of Physical Chemistry C*, **2013**, 117, 949-955	3.8	8
144	Insights into the Surface Chemistry of Tin Oxide Atomic Layer Deposition from Quantum Chemical Calculations. *Journal of Physical Chemistry C*, **2013**, 117, 19056-19062	3.8	13
143	Tin oxide atomic layer deposition from tetrakis(dimethylamino)tin and water. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2013**, 31, 061503	2.9	71
142	Effects of QD surface coverage in solid-state PbS quantum dot-sensitized solar cells **2013**,		1
141	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	3.8	100
140	Growth of Pt nanowires by atomic layer deposition on highly ordered pyrolytic graphite. *Nano Letters*, **2013**, 13, 457-63	11.5	78
139	Efficiency enhancement of solid-state PbS quantum dot-sensitized solar cells with Al2O3 barrier layer. *Journal of Materials Chemistry A*, **2013**, 1, 7566	13	54
138	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	9.6	23

137	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, 040801	2.9	99
136	Formation of stable nitrene surface species by the reaction of adsorbed phenyl isocyanate at the Ge(100)-2 □1 surface. *Langmuir*, **2013**, 29, 15842-50	4	6
135	Adsorption of Trimethyl Phosphite at the Ge(100)-2 □1 Surface by Nucleophilic Reaction. *Journal of Physical Chemistry C*, **2013**, 117, 26628-26635	3.8	9
134	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	3.8	29
133	Cross-Linked Ultrathin Polyurea Films via Molecular Layer Deposition. *Macromolecules*, **2013**, 46, 5638-5643	5.5	43
132	Highly Stable Ultrathin Carbosiloxane Films by Molecular Layer Deposition. *Journal of Physical Chemistry C*, **2013**, 117, 19967-19973	3.8	25
131	Adsorption of Structural and Stereoisomers of Cyclohexanediamine at the Ge(100)-2 □1 Surface: Geometric Effects in Adsorption on a Semiconductor Surface. *Journal of Physical Chemistry C*, **2013**, 117, 19063-19073	3.8	12
130	Area selective molecular layer deposition of polyurea films. *ACS Applied Materials & Interfaces*, **2013**, 5, 13391-6	9.5	34
129	Highly sensitive, patternable organic films at the nanoscale made by bottom-up assembly. *ACS Applied Materials & Interfaces*, **2013**, 5, 3691-6	9.5	14
128	Novel photoresist thin films with in-situ photoacid generator by molecular layer deposition **2013**,		1
127	Ab initio Simulation of 1D Pattern Formation of Adsorbates on the Ge(100)-2 □1 Surface. *Materials Research Society Symposia Proceedings*, **2013**, 1551, 81-86		
126	The importance of dye chemistry and TiCl4 surface treatment in the behavior of Al2O3 recombination barrier layers deposited by atomic layer deposition in solid-state dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 12130-40	3.6	36
125	The low temperature atomic layer deposition of ruthenium and the effect of oxygen exposure. *Journal of Materials Chemistry*, **2012**, 22, 25154		29
124	Transition in the Molecular Orientation of Phenol Adsorbates on the Ge(100)-2 □1 Surface. *Journal of Physical Chemistry C*, **2012**, 116, 7925-7930	3.8	12
123	Nucleation-Controlled Growth of Nanoparticles by Atomic Layer Deposition. *Chemistry of Materials*, **2012**, 24, 4051-4059	9.6	47
122	Dissociative Adsorption of Dimethyl Sulfoxide at the Ge(100)-2 □1 Surface. *Journal of Physical Chemistry C*, **2012**, 116, 26422-26430	3.8	8
121	Microstructure-Dependent Nucleation in Atomic Layer Deposition of Pt on TiO2. *Chemistry of Materials*, **2012**, 24, 279-286	9.6	62
120	Reaction of Hydroquinone and p-Benzoquinone with the Ge(100)-2 □1 Surface. *Journal of Physical Chemistry C*, **2012**, 116, 4705-4713	3.8	22

119	Single versus Dual Attachment in the Adsorption of Diisocyanates at the Ge(100)-2 □1 Surface. *Journal of Physical Chemistry C*, **2012**, 116, 12670-12679	3.8	16
118	Power losses in bilayer inverted small molecule organic solar cells. *Applied Physics Letters*, **2012**, 101, 233903	3.4	6
117	Growth characteristics, material properties, and optical properties of zinc oxysulfide films deposited by atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2012**, 30, 01A135	2.9	43
116	Nanopatterning by Area-Selective Atomic Layer Deposition **2012**, 193-225		29
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