

# Steven George

## 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.

449  
papers

33,459  
citations

90  
h-index

165  
g-index

481  
ext. papers

35,650  
ext. citations

5.3  
avg, IF

7.75  
L-index

#	Paper	IF	Citations
449	Spontaneous etching of B <sub>2</sub> O <sub>3</sub> by HF gas studied using infrared spectroscopy, mass spectrometry, and density functional theory. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 022601	2.9	2
448	Atomic layer etching of ferroelectric hafnium zirconium oxide thin films enables giant tunneling electroresistance. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 122901	3.4	3
447	Deposit and etchback approach for ultrathin Al <sub>2</sub> O <sub>3</sub> films with low pinhole density using atomic layer deposition and atomic layer etching. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 062602	2.9	3
446	Prediction and Validation of the Process Window for Atomic Layer Etching: HF Exposure on TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 25589-25599	3.8	4
445	Thermal atomic layer etching of germanium-rich SiGe using an oxidation and conversion-etch mechanism. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 022602	2.9	4
444	Atomic layer deposition of hafnium and zirconium oxyfluoride thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 022403	2.9	1
443	Thermal atomic layer etching: A review. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 030801	2.9	26
442	Thermal atomic layer etching of amorphous and crystalline Al <sub>2</sub> O <sub>3</sub> films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 042602	2.9	5
441	Hollow cathode plasma electron source for low temperature deposition of cobalt films by electron-enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 042403	2.9	0
440	Conversion reactions in atomic layer processing with emphasis on ZnO conversion to Al <sub>2</sub> O <sub>3</sub> by trimethylaluminum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 021001	2.9	4
439	Area-selective molecular layer deposition of nylon 6,2 polyamide: Growth on carbon and inhibition on silica. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 023204	2.9	8
438	Molecular layer deposition of Nylon 2,6 polyamide polymer on flat and particle substrates in an isothermal enclosure containing a rotary reactor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 052405	2.9	1
437	Molecular layer deposition for the fabrication of desalination membranes with tunable metrics. <i>Desalination</i> , <b>2021</b> , 520, 115334	10.3	5
436	Smoothing surface roughness using Al <sub>2</sub> O <sub>3</sub> atomic layer deposition. <i>Applied Surface Science</i> , <b>2021</b> , 569, 150878	6.7	5
435	Mechanisms of Thermal Atomic Layer Etching. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 1151-1160	24.3	41
434	Thermal Atomic Layer Etching of Gallium Oxide Using Sequential Exposures of HF and Various Metal Precursors. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5937-5948	9.6	8
433	Thermal atomic layer etching of silicon nitride using an oxidation and conversion etch mechanism. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022607	2.9	18

432	Effect of crystallinity on thermal atomic layer etching of hafnium oxide, zirconium oxide, and hafnium zirconium oxide. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022608	2.9	14
431	Atomic layer deposition of aluminum oxyfluoride thin films with tunable stoichiometry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022407	2.9	3
430	Thermal etching of AlF <sub>3</sub> and thermal atomic layer etching of Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022603	2.9	13
429	Volatile Etch Species Produced during Thermal Al <sub>2</sub> O <sub>3</sub> Atomic Layer Etching. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 287-299	3.8	24
428	ZrO <sub>2</sub> Monolayer as a Removable Etch Stop Layer for Thermal Al <sub>2</sub> O <sub>3</sub> Atomic Layer Etching Using Hydrogen Fluoride and Trimethylaluminum. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 10055-10065	9.6	1
427	Continuous polymer films deposited on top of porous substrates using plasma-enhanced atomic layer deposition and molecular layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 052409	2.9	5
426	Probing the Atomic-Scale Structure of Amorphous Aluminum Oxide Grown by Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 22804-22814	9.5	12
425	Spatial Molecular Layer Deposition of Ultrathin Polyamide To Stabilize Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4135-4143	6.1	14
424	Effect of HF Pressure on Thermal Al <sub>2</sub> O <sub>3</sub> Atomic Layer Etch Rates and Al <sub>2</sub> O <sub>3</sub> Fluorination. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10346-10355	3.8	33
423	SF <sub>4</sub> as the Fluorination Reactant for Al <sub>2</sub> O <sub>3</sub> and VO <sub>2</sub> Thermal Atomic Layer Etching. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3624-3635	9.6	16
422	Thermal atomic layer etching of crystalline GaN using sequential exposures of XeF <sub>2</sub> and BCl <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 114, 243103	3.4	23
421	Thermal Atomic Layer Etching of Al <sub>2</sub> O <sub>3</sub> , HfO <sub>2</sub> , and ZrO <sub>2</sub> Using Sequential Hydrogen Fluoride and Dimethylaluminum Chloride Exposures. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 18455-18466	3.8	25
420	In Situ Thermal Atomic Layer Etching for Sub-5 nm InGaAs Multigate MOSFETs. <i>Nano Letters</i> , <b>2019</b> , 19, 5159-5166	11.5	19
419	Growth of cobalt films at room temperature using sequential exposures of cobalt tricarbonyl nitrosyl and low energy electrons. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 060906	2.9	7
418	Improving Powder Characteristics by Surface Modification Using Atomic Layer Deposition. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 2362-2368	3.9	8
417	Thermal Atomic Layer Etching of Amorphous and Crystalline Hafnium Oxide, Zirconium Oxide, and Hafnium Zirconium Oxide <b>2019</b> ,		3
416	Spatial molecular layer deposition of polyamide thin films on flexible polymer substrates using a rotating cylinder reactor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 01A117	2.9	17
415	Electron-enhanced atomic layer deposition of silicon thin films at room temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 01A118	2.9	15

414	Spatial atomic layer deposition for coating flexible porous Li-ion battery electrodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 01A123	2.9	16
413	Electron-Enhanced Atomic Layer Deposition of Boron Nitride Thin Films at Room Temperature and 100 °C. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9455-9464	3.8	22
412	Efficient Capacitive Deionization Using Thin Film Sodium Manganese Oxide. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2330-A2339	3.9	11
411	Electron-Enhanced Atomic Layer Deposition of Boron Nitride Thin Films at Room Temperature and 100 °C. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122,	3.8	1
410	First Transistor Demonstration of Thermal Atomic Layer Etching: InGaAs FinFETs with sub-5 nm Fin-width Featuring in situ ALE-ALD <b>2018</b> ,		17
409	Thermal Atomic Layer Etching of Silicon Using O <sub>2</sub> , HF, and Al(CH <sub>3</sub> ) <sub>3</sub> as the Reactants. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8465-8475	9.6	32
408	Thermal atomic layer etching of HfO <sub>2</sub> using HF for fluorination and TiCl <sub>4</sub> for ligand-exchange. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 061504	2.9	29
407	Rapid atomic layer etching of Al <sub>2</sub> O <sub>3</sub> using sequential exposures of hydrogen fluoride and trimethylaluminum with no purging. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 061508	2.9	22
406	Thermal Atomic Layer Etching of ZnO by a "Conversion-Etch" Mechanism Using Sequential Exposures of Hydrogen Fluoride and Trimethylaluminum. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1183-1191	9.6	57
405	Thermal Atomic Layer Etching of SiO <sub>2</sub> by a "Conversion-Etch" Mechanism Using Sequential Reactions of Trimethylaluminum and Hydrogen Fluoride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10296-10307	9.5	73
404	Competition between AlO atomic layer etching and AlF atomic layer deposition using sequential exposures of trimethylaluminum and hydrogen fluoride. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 052819	3.9	32
403	Coating Solution for High-Voltage Cathode: AlF Atomic Layer Deposition for Freestanding LiCoO <sub>2</sub> Electrodes with High Energy Density and Excellent Flexibility. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9614-9619	9.5	47
402	Surface modification of acetaminophen particles by atomic layer deposition. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 525, 160-174	6.5	31
401	Progress and prospects in nanoscale dry processes: How can we control atomic layer reactions?. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06HA02	1.4	21
400	WO and W Thermal Atomic Layer Etching Using "Conversion-Fluorination" and "Oxidation-Conversion-Fluorination" Mechanisms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34435-34447	9.5	47
399	Thermal Atomic Layer Etching of Titanium Nitride Using Sequential, Self-Limiting Reactions: Oxidation to TiO <sub>2</sub> and Fluorination to Volatile TiF <sub>4</sub> . <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8202-8210	9.6	52
398	Atomic Layer Deposition of Zn(O,S) Alloys Using Diethylzinc with H <sub>2</sub> O and H <sub>2</sub> S: Effect of Exchange Reactions. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18643-18652	3.8	17
397	Atomic layer deposition-A novel method for the ultrathin coating of minitables. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 531, 47-58	6.5	13

396	Stabilizing an amorphous V <sub>2</sub> O <sub>5</sub> /carbon nanotube paper electrode with conformal TiO <sub>2</sub> coating by atomic layer deposition for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 537-544	13	49
395	Rapid Growth of Crystalline Mn <sub>5</sub> O <sub>8</sub> by Self-Limited Multilayer Deposition using Mn(EtCp) <sub>2</sub> and O <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18560-9	9.5	14
394	Band Diagram and Rate Analysis of Thin Film Spinel LiMn <sub>2</sub> O <sub>4</sub> Formed by Electrochemical Conversion of ALD-Grown MnO. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7895-7907	15.6	31
393	Molecular Layer Deposition for Surface Modification of Lithium-Ion Battery Electrodes. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600762	4.6	49
392	Enhanced Methanol Oxidation with Annealed Atomic Layer Deposited Platinum Nanoparticles on Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F1-F10	3.9	28
391	Electron Enhanced Growth of Crystalline Gallium Nitride Thin Films at Room Temperature and 100 °C Using Sequential Surface Reactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28,	9.6	29
390	Spatial atomic layer deposition on flexible porous substrates: ZnO on anodic aluminum oxide films and Al <sub>2</sub> O <sub>3</sub> on Li ion battery electrodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 01A146	2.9	24
389	Thermal atomic layer etching of crystalline aluminum nitride using sequential, self-limiting hydrogen fluoride and Sn(acac) <sub>2</sub> reactions and enhancement by H <sub>2</sub> and Ar plasmas. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 050603	2.9	50
388	Prospects for Thermal Atomic Layer Etching Using Sequential, Self-Limiting Fluorination and Ligand-Exchange Reactions. <i>ACS Nano</i> , <b>2016</b> , 10, 4889-94	16.7	90
387	Atomic Layer Deposition of Metal Fluorides Using HF/Pyridine as the Fluorine Precursor. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2022-2032	9.6	44
386	Cross-linked aluminum dioxybenzene coating for stabilization of silicon electrodes. <i>Nano Energy</i> , <b>2016</b> , 22, 202-210	17.1	24
385	Trimethylaluminum as the Metal Precursor for the Atomic Layer Etching of Al <sub>2</sub> O <sub>3</sub> Using Sequential, Self-Limiting Thermal Reactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2994-3003	9.6	65
384	Selectivity in Thermal Atomic Layer Etching Using Sequential, Self-Limiting Fluorination and Ligand-Exchange Reactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 7657-7665	9.6	63
383	Atomic layer deposition of ultrathin platinum films on tungsten atomic layer deposition adhesion layers: Application to high surface area substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 01A130	2.9	33
382	Mitigating irreversible capacity losses from carbon agents via surface modification. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 605-611	8.9	12
381	Atomic Layer Deposition of AlF <sub>3</sub> Using Trimethylaluminum and Hydrogen Fluoride. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 14185-14194	3.8	59
380	Structure and Reactivity of Alucone-Coated Films on Si and Li(x)Si(y) Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11948-55	9.5	33
379	Surface-coating regulated lithiation kinetics and degradation in silicon nanowires for lithium ion battery. <i>ACS Nano</i> , <b>2015</b> , 9, 5559-66	16.7	99

378	Amorphous Ultrathin TiO <sub>2</sub> Atomic Layer Deposition Films on Carbon Nanotubes as Anodes for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A974-A981	3.9	46
377	Mechanism of Thermal Al <sub>2</sub> O <sub>3</sub> Atomic Layer Etching Using Sequential Reactions with Sn(acac) <sub>2</sub> and HF. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3648-3657	9.6	50
376	Electrical and thermal conduction in ultra-thin freestanding atomic layer deposited W nanobridges. <i>Nanoscale</i> , <b>2015</b> , 7, 17923-8	7.7	5
375	Doped Si nanoparticles with conformal carbon coating and cyclized-polyacrylonitrile network as high-capacity and high-rate lithium-ion battery anodes. <i>Nanotechnology</i> , <b>2015</b> , 26, 365401	3.4	7
374	Effect of Al <sub>2</sub> O <sub>3</sub> Coating on Stabilizing LiNi <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathodes. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6146-6154	9.6	149
373	Atomic Layer Etching of HfO <sub>2</sub> Using Sequential, Self-Limiting Thermal Reactions with Sn(acac) <sub>2</sub> and HF. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, N5013-N5022	2	70
372	Silicon algae with carbon topping as thin-film anodes for lithium-ion microbatteries by a two-step facile method. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 252-259	8.9	27
371	Spatial atomic layer deposition on flexible substrates using a modular rotating cylinder reactor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 01A132	2.9	33
370	Atomic Layer Etching of AlF <sub>3</sub> Using Sequential, Self-Limiting Thermal Reactions with Sn(acac) <sub>2</sub> and Hydrogen Fluoride. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25385-25393	3.8	31
369	Growth and Characterization of Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition Films on sp <sup>2</sup> -Graphitic Carbon Substrates Using NO <sub>2</sub> /Trimethylaluminum Pretreatment. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12030-7	9.5	23
368	Pyrolysis of Alucone Molecular Layer Deposition Films Studied Using In Situ Transmission Fourier Transform Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 14603-14612	3.8	40
367	Amorphous Ultrathin SnO <sub>2</sub> Films by Atomic Layer Deposition on Graphene Network as Highly Stable Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27735-42	9.5	49
366	Sodium Charge Storage in Thin Films of MnO <sub>2</sub> Derived by Electrochemical Oxidation of MnO Atomic Layer Deposition Films. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2753-A2761	3.9	33
365	Charge Storage in Cation Incorporated $\delta$ -MnO <sub>2</sub> . <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1172-1180	9.6	93
364	Atomic layer etching of Al <sub>2</sub> O <sub>3</sub> using sequential, self-limiting thermal reactions with Sn(acac) <sub>2</sub> and hydrogen fluoride. <i>ACS Nano</i> , <b>2015</b> , 9, 2061-70	16.7	104
363	Utilization of Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition for Li Ion Pathways in Solid State Li Batteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A344-A349	3.9	25
362	Waterless TiO <sub>2</sub> atomic layer deposition using titanium tetrachloride and titanium tetraisopropoxide. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2014</b> , 32, 01A114	2.9	9
361	Amorphous vanadium oxide coating on graphene by atomic layer deposition for stable high energy lithium ion anodes. <i>Chemical Communications</i> , <b>2014</b> , 50, 10703-6	5.8	52

360	Ultra-thin 3D nano-devices from atomic layer deposition on polyimide. <i>Advanced Materials</i> , <b>2014</b> , 26, 3962-7	24	17
359	Growth and properties of hafnicon and HfO(2)/hafnicon nanolaminate and alloy films using molecular layer deposition techniques. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16880-7	9.5	35
358	Synthesis of ZnO quantum dot/graphene nanocomposites by atomic layer deposition with high lithium storage capacity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7319-7326	13	109
357	Growth of Zircon on Nanoporous Alumina Using Molecular Layer Deposition. <i>Jom</i> , <b>2014</b> , 66, 649-653	2.1	7
356	Atomic Layer Deposition of Platinum Nanoparticles on Titanium Oxide and Tungsten Oxide Using Platinum(II) Hexafluoroacetylacetonate and Formalin as the Reactants. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8960-8970	3.8	27
355	Porous Fe <sub>2</sub> O <sub>3</sub> nanorods anchored on nitrogen-doped graphenes and ultrathin Al <sub>2</sub> O <sub>3</sub> coating by atomic layer deposition for long-lived lithium ion battery anode. <i>Carbon</i> , <b>2014</b> , 76, 141-147	10.4	42
354	Hemispherical micro-resonators from atomic layer deposition. <i>Journal of Micromechanics and Microengineering</i> , <b>2014</b> , 24, 125028	2	12
353	Oxidation Kinetics of Calcium Films by Water Vapor and Their Effect on Water Vapor Transmission Rate Measurements. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29322-29332	3.8	7
352	In situ transmission electron microscopy probing of native oxide and artificial layers on silicon nanoparticles for lithium ion batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 11816-23	16.7	90
351	Reversible high-capacity Si nanocomposite anodes for lithium-ion batteries enabled by molecular layer deposition. <i>Advanced Materials</i> , <b>2014</b> , 26, 1596-601	24	146
350	GaN nanowire coated with atomic layer deposition of tungsten: a probe for near-field scanning microwave microscopy. <i>Nanotechnology</i> , <b>2014</b> , 25, 415502	3.4	4
349	Unexpected high power performance of atomic layer deposition coated Li[Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> ]O <sub>2</sub> cathodes. <i>Journal of Power Sources</i> , <b>2014</b> , 254, 190-197	8.9	66
348	Atomic layer deposition Al <sub>2</sub> O <sub>3</sub> diffusion barriers to eliminate the memory effect in beta-gamma radioxenon detectors. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 296, 541-549	1.5	7
347	Molecular layer deposition on carbon nanotubes. <i>ACS Nano</i> , <b>2013</b> , 7, 7812-23	16.7	25
346	Metal-insulator-metal diodes: role of the insulator layer on the rectification performance. <i>Advanced Materials</i> , <b>2013</b> , 25, 1301-8	24	47
345	Ultralow thermal conductivity of atomic/molecular layer-deposited hybrid organic-inorganic zircon thin films. <i>Nano Letters</i> , <b>2013</b> , 13, 5594-9	11.5	82
344	H <sub>2</sub> O vapor transmission rate through polyethylene naphthalate polymer using the electrical Ca test. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 12026-34	2.8	19
343	Pseudocapacitance of Amorphous TiO <sub>2</sub> Thin Films Anchored to Graphene and Carbon Nanotubes Using Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22497-22508	3.8	95

342	ZnO quantum dots-graphene composite for efficient ultraviolet sensing. <i>Materials Letters</i> , <b>2013</b> , 112, 165-168	3.3	15
341	Molecular Layer Deposition of Zirconium and ZrO <sub>2</sub> /Zirconium Alloy Films: Growth and Properties. <i>Chemical Vapor Deposition</i> , <b>2013</b> , 19, 204-212		52
340	History of atomic layer deposition and its relationship with the American Vacuum Society. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 050818	2.9	73
339	Alucone interlayers to minimize stress caused by thermal expansion mismatch between Al <sub>2</sub> O <sub>3</sub> films and Teflon substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1165-73	9.5	42
338	Pyrolysis of Titanicene Molecular Layer Deposition Films as Precursors for Conducting TiO <sub>2</sub> /Carbon Composite Films. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 17442-17450	3.8	42
337	Growth and Properties of Hybrid Organic-Inorganic Metalcone Films Using Molecular Layer Deposition Techniques. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 532-546	15.6	109
336	Unexpected Improved Performance of ALD Coated LiCoO <sub>2</sub> /Graphite Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 213-219	21.8	174
335	(Invited) In Situ Characterization of Plasma-Assisted Pt ALD on W ALD Adhesion Layers with Spectroscopic Ellipsometry. <i>ECS Transactions</i> , <b>2013</b> , 58, 19-26	1	4
334	Capillary evaporation on micromembrane-enhanced microchannel wicks with atomic layer deposited silica. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 151602	3.4	34
333	Hybrid organic-inorganic films fabricated using atomic and molecular layer deposition <b>2013</b> ,		1
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329	Ultrathin oxide films by atomic layer deposition on graphene. <i>Nano Letters</i> , <b>2012</b> , 12, 3706-10	11.5	66
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322	Spatial atomic layer deposition: A route towards further industrialization of atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2012</b> , 30, 010802	2.9	248
321	Highly Conductive and Transparent Hybrid Organic/Inorganic Zinc Oxide Thin Films Using Atomic and Molecular Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 24784-24791	3.8	69
320	Molecular Layer Deposition of Hybrid Organic/Inorganic Films <b>2012</b> , 83-107		6
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205	Gas phase reaction products during tungsten atomic layer deposition using WF <sub>6</sub> and Si <sub>2</sub> H <sub>6</sub> . <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2004</b> , 22, 1811		43
204	Infrared spectroscopic study of atomic layer deposition mechanism for hafnium silicate thin films using HfCl <sub>2</sub> [N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> and H <sub>2</sub> O. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 2392-2397	2.9	17
203	Suppression of inelastic deformation of nanocoated thin film microstructures. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 8216-8225	2.5	15
202	Coating Fine Nickel Particles with Al <sub>2</sub> O <sub>3</sub> Utilizing an Atomic Layer Deposition-Fluidized Bed Reactor (ALD $\ddot{B}$ BR). <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 762-765	3.8	75
201	Nanocoating individual cohesive boron nitride particles in a fluidized bed by ALD. <i>Powder Technology</i> , <b>2004</b> , 142, 59-69	5.2	100
200	Ultra-low thermal conductivity in W/Al <sub>2</sub> O <sub>3</sub> nanolaminates. <i>Science</i> , <b>2004</b> , 303, 989-90	33.3	292
199	Nucleation and growth during the atomic layer deposition of W on Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> on W. <i>Thin Solid Films</i> , <b>2004</b> , 467, 16-27	2.2	59

198	TiO <sub>2</sub> atomic layer deposition on ZrO <sub>2</sub> particles using alternating exposures of TiCl <sub>4</sub> and H <sub>2</sub> O. <i>Applied Surface Science</i> , <b>2004</b> , 226, 393-404	6.7	80
197	Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Films on Polyethylene Particles. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5602-5609	5.6	171
196	Nanocoating individual cohesive boron nitride particles in a fluidized bed by ALD. <i>Powder Technology</i> , <b>2004</b> , 142, 59-59	5.2	
195	Low-Temperature Al <sub>2</sub> O <sub>3</sub> Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 639-645	9.6	1102
194	ALD of SiO <sub>2</sub> at Room Temperature Using TEOS and H <sub>2</sub> O with NH <sub>3</sub> as the Catalyst. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, G528	3.9	122
193	Improved nucleation of TiN atomic layer deposition films on SiLK low-k polymer dielectric using an Al <sub>2</sub> O <sub>3</sub> atomic layer deposition adhesion layer. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 1099		46
192	Thermomechanical response of bare and Al <sub>2</sub> O <sub>3</sub> -nanocoated Au/Si bilayer beams for microelectromechanical systems. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1575-1587	2.5	13
191	Surface chemistry and film growth during TiN atomic layer deposition using TDMAT and NH <sub>3</sub> . <i>Thin Solid Films</i> , <b>2003</b> , 436, 145-156	2.2	145
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189	Atomic-layer deposition of wear-resistant coatings for microelectromechanical devices. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2883-2885	3.4	160
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187	Isothermal Desorption Kinetics of Crystalline H <sub>2</sub> O, H <sub>2</sub> <sup>18</sup> O, and D <sub>2</sub> O Ice Multilayers. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3871-3877	3.4	26
186	Conformal Coating on Ultrahigh-Aspect-Ratio Nanopores of Anodic Alumina by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3507-3517	9.6	511
185	Growth of ZnO/Al <sub>2</sub> O <sub>3</sub> Alloy Films Using Atomic Layer Deposition Techniques. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 1020-1028	9.6	311
184	Temperature-Induced Apparent Mass Changes Observed during Quartz Crystal Microbalance Measurements of Atomic Layer Deposition. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4975-4982	7.8	71
183	ZnO/Al <sub>2</sub> O <sub>3</sub> nanolaminates fabricated by atomic layer deposition: growth and surface roughness measurements. <i>Thin Solid Films</i> , <b>2002</b> , 414, 43-55	2.2	227
182	Atomic layer deposition of boron nitride using sequential exposures of BCl <sub>3</sub> and NH <sub>3</sub> . <i>Thin Solid Films</i> , <b>2002</b> , 413, 16-25	2.2	94
181	Electrical characterization of thin Al <sub>2</sub> O <sub>3</sub> films grown by atomic layer deposition on silicon and various metal substrates. <i>Thin Solid Films</i> , <b>2002</b> , 413, 186-197	2.2	558



180	In situ resistivity measurements during the atomic layer deposition of ZnO and W thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 180-182	3.4	48
179	Optimization of a rotary Q-switched Er:YAG laser. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 2526-2532	1.7	1
178	Suppression of Stress Relaxation in MEMS Multilayer Film Microstructures by Use of ALD Nanocoatings <b>2002</b> , 179		1
177	Effect of Sodium on HCl Hydrate Diffusion in Ice: Evidence for Anion-Cation Trapping. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 5114-5119	2.8	13
176	Viscous flow reactor with quartz crystal microbalance for thin film growth by atomic layer deposition. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 2981-2987	1.7	461
175	General Trends for Bulk Diffusion in Ice and Surface Diffusion on Ice. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 6309-6318	2.8	63
174	X-ray Reflectivity Characterization of ZnO/Al <sub>2</sub> O <sub>3</sub> Multilayers Prepared by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 2276-2282	9.6	76
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172	Nucleation and growth during tungsten atomic layer deposition on SiO <sub>2</sub> surfaces. <i>Thin Solid Films</i> , <b>2001</b> , 386, 41-52	2.2	81
171	Vibro-fluidization of fine boron nitride powder at low pressure. <i>Powder Technology</i> , <b>2001</b> , 121, 195-204	5.2	85
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169	HBr Uptake on Ice: Uptake Coefficient, H <sub>2</sub> O/HBr Hydrate Formation, and H <sub>2</sub> O Desorption Kinetics. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 694-702	2.8	14
168	Diffusion Kinetics of HCl Hydrates in Ice Measured Using Infrared Laser Resonant Desorption Depth-Profiling. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5155-5164	2.8	34
167	Nucleation and Growth During Tungsten Atomic Layer Deposition on Oxide Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 672, 1		1
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164	Atomic layer deposition of ultrathin and conformal Al <sub>2</sub> O <sub>3</sub> films on BN particles. <i>Thin Solid Films</i> , <b>2000</b> , 371, 95-104	2.2	180
163	Atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> on BN particles using sequential surface reactions. <i>Applied Surface Science</i> , <b>2000</b> , 162-163, 280-292	6.7	51

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132	Surface and Bulk Diffusion of H <sub>2</sub> <sup>18</sup> O on Single-Crystal H <sub>2</sub> <sup>16</sup> O Ice Multilayers. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 15460-15469		73
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80	Coverage dependence of n-butane surface diffusion on a stepped Ru(001) surface. <i>Surface Science</i> , <b>1992</b> , 261, 129-140	1.8	30
79	Kinetics of desorption, adsorption, and surface diffusion of CO <sub>2</sub> on MgO(100). <i>Surface Science</i> , <b>1992</b> , 261, 141-154	1.8	79
78	Reaction kinetics of GeCl <sub>4</sub> on Si(111)7 $\bar{1}$ . <i>Surface Science</i> , <b>1992</b> , 278, 383-396	1.8	13
77	Coverage-dependent electronic absorption spectrum of phenanthrene on alumina (0001) and butane multilayer surfaces. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 839-844		6
76	Effect of Surface Coverage on Porous Silicon Photoluminescence: Transmission FTIR Studies. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 256, 17		6
75	Decomposition of Alkylsilanes on Silicon Surfaces Using Transmission Ftir Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 222, 213		1
74	FTIR studies reveal that silicon-containing laser-induced desorption products are surface reaction intermediates. <i>Chemical Physics Letters</i> , <b>1991</b> , 176, 128-134	2.5	16
73	Desorption kinetics of C <sub>60</sub> multilayers from Al <sub>2</sub> O <sub>3</sub> (0001). <i>Chemical Physics Letters</i> , <b>1991</b> , 186, 450-455	2.5	53

72	Ammonia decomposition on silicon surfaces studied using transmission Fourier transform infrared spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1991</b> , 9, 2222-2230	3.9	46
71	Adsorption, desorption, and surface diffusion kinetics of NH <sub>3</sub> on MgO(100). <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 8521-8531	3.9	51
70	FTIR studies of H <sub>2</sub> O and D <sub>2</sub> O decomposition on porous silicon surfaces. <i>Surface Science</i> , <b>1991</b> , 245, 360-372	1.8	166
69	Laser-induced desorption of H <sub>2</sub> from Si(111)7 × 7. <i>Surface Science</i> , <b>1991</b> , 248, 158-172	1.8	39
68	Coverage-dependent surface diffusion expected from a multiple-site hopping model. <i>Surface Science</i> , <b>1991</b> , 241, 369-377	1.8	30
67	Desorption product yields following Cl <sub>2</sub> adsorption on Si(111)7 × 7: Coverage and temperature dependence. <i>Surface Science</i> , <b>1991</b> , 249, 92-104	1.8	90
66	Comparison of hydrogen desorption kinetics from Si(111)7 × 7 and Si(100)2 × 1. <i>Surface Science</i> , <b>1991</b> , 258, 166-176	1.8	271
65	Surface diffusion and desorption kinetics for perfluoro-n-butane on Ru(001). <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 4001-4008	3.9	15
64	Vibrational resonant desorption from surfaces using the infrared free-electron laser <b>1990</b> , 1227, 145		1
63	Comparison of H <sub>2</sub> Desorption Kinetics from Si(111)7 × 7 and Si(100)2 × 1. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 204, 319		10
62	Adsorption and Decomposition of Diethylsilane on Silicon Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 204, 303		3
61	Adsorption and Desorption Kinetics for Chlorosilanes on Si(111) 7 × 7. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 204, 311		3
60	Ftir Studies of Water and Ammonia Decomposition on Silicon Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 204, 339		
59	FTIR studies of water and ammonia decomposition on silicon surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>1990</b> , 54-55, 1085-1095	1.7	28
58	Surface diffusion and desorption of pentane isomers on ruthenium(001). <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 6792-6797		35
57	CO desorption kinetics from clean and sulfur-covered Ru(001) surfaces. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 4483-4490	3.9	17
56	Surface diffusion of n-alkanes on Ru(001). <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 5136-5143	3.9	102
55	Fluorescence quenching of the phenanthrene excimer on Al <sub>2</sub> O <sub>3</sub> (001): Coverage and distance dependence. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2836-2847	3.9	29

54	Adsorption and desorption kinetics for SiCl <sub>4</sub> on Si(111)7 $\times$ 7. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 2827-2835	3.5	94
53	Effect of sulfur on the decomposition kinetics of methanol on Ru(001). <i>Surface Science</i> , <b>1990</b> , 226, 42-50	1.8	7
52	Surface diffusion of tetramethylsilane and neopentane on Ru(001). <i>Surface Science</i> , <b>1990</b> , 233, 293-307	1.8	28
51	Desorption kinetics and excimer formation of pyrene on Al <sub>2</sub> O <sub>3</sub> (112 0). <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 5778-5785	3.9	10
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48	Coverage-dependent electronic absorption spectrum of pyrene on Al <sub>2</sub> O <sub>3</sub> (1120). <i>Chemical Physics Letters</i> , <b>1989</b> , 159, 599-604	2.5	13
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45	Surface nucleation in the crystallization kinetics of phenanthrene multilayers on Al <sub>2</sub> O <sub>3</sub> (). <i>Surface Science</i> , <b>1989</b> , 207, L961-L970	1.8	12
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43	Decomposition of NH <sub>3</sub> on Si(111) 7 $\times$ 7 studied using laser-induced thermal desorption. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1989</b> , 7, 1303		53
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41	Desorption kinetics of hydrogen and deuterium from Si(111) 7 $\times$ 7 studied using laser-induced thermal desorption. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 1709-1718	3.9	223
40	Hydrogen desorption kinetics from monohydride and dihydride species on silicon surfaces. <i>Physical Review B</i> , <b>1988</b> , 37, 8234-8243	3.3	481
39	Summary Abstract: Surface diffusion of hydrogen on carbon- and sulfur-covered Ru(001) studied using laser-induced thermal desorption. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1988</b> , 6, 842-843	2.9	3
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27	Summary Abstract: The decomposition kinetics of methanol on Ru(001) studied using laser induced thermal desorption. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1987</b> , 5, 518-519	2.9	4
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25	Coverage dependence of the surface diffusion coefficient for hydrogen on Ru(001). <i>Surface Science</i> , <b>1987</b> , 191, 108-120	1.8	64
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