

Roy G Gordon

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.

275
papers

22,469
citations

76
h-index

144
g-index

293
ext. papers

24,534
ext. citations

7.6
avg, IF

7
L-index

#	Paper	IF	Citations
275	Anthraquinone Flow Battery Reactants with Nonhydrolyzable Water-Solubilizing Chains Introduced via a Generic Cross-Coupling Method. <i>ACS Energy Letters</i> , 2022 , 7, 226-235	20.1	5
274	Low energy carbon capture via electrochemically induced pH swing with electrochemical rebalancing.. <i>Nature Communications</i> , 2022 , 13, 2140	17.4	2
273	High-performance anthraquinone with potentially low cost for aqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26709-26716	13	7
272	Study of the crystal structure of SnS thin films by atomic layer deposition. <i>AIP Advances</i> , 2021 , 11, 035144	4.5	4
271	Functioning Water-Insoluble Ferrocenes for Aqueous Organic Flow Battery via Host-Guest Inclusion. <i>ChemSusChem</i> , 2021 , 14, 745-752	8.3	11
270	Chemical Vapor Deposition of Transparent, p-Type Cuprous Bromide Thin Films. <i>Chemistry of Materials</i> , 2021 , 33, 1426-1434	9.6	3
269	ALD Growth of Mg _x Ca _{1-x} O on GaN and Its Band Offset Analysis. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 845-853	4	
268	Extremely Stable Anthraquinone Negolytes Synthesized from Common Precursors. <i>Chem</i> , 2020 , 6, 1432-1442	10.42	43
267	Epitaxial growth of Mg _x Ca _{1-x} O on 4H-SiC(0001) and Ga ₂ O ₃ (left({bar 201} right)) wide band gap semiconductors with atomic layer deposition. <i>Journal of Materials Research</i> , 2020 , 35, 831-839	2.5	
266	Atomic layer deposition of cubic tin/calcium sulfide alloy films. <i>Journal of Materials Research</i> , 2020 , 35, 795-803	2.5	0
265	Effect of Molecular Structure of Quinones and Carbon Electrode Surfaces on the Interfacial Electron Transfer Process. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1933-1943	6.1	17
264	In situ electrosynthesis of anthraquinone electrolytes in aqueous flow batteries. <i>Green Chemistry</i> , 2020 , 22, 6084-6092	10	12
263	pH swing cycle for CO ₂ capture electrochemically driven through proton-coupled electron transfer. <i>Energy and Environmental Science</i> , 2020 , 13, 3706-3722	35.4	27
262	Near Neutral pH Redox Flow Battery with Low Permeability and Long-Lifetime Phosphonated Viologen Active Species. <i>Advanced Energy Materials</i> , 2020 , 10, 2000100	21.8	51
261	Electrostatically Doped Silicon Nanowire Arrays for Multispectral Photodetectors. <i>ACS Nano</i> , 2019 , 13, 11717-11725	16.7	12
260	Strong, Long, Electrically Conductive and Insulated Coaxial Nanocables. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1717-1723	4.3	3
259	Atomic layer deposition of energy band tunable tin germanium oxide electron transport layer for the SnS-based solar cells with 400 mV open-circuit voltage. <i>Applied Physics Letters</i> , 2019 , 114, 213901	3.4	13

258	Symmetric All-Quinone Aqueous Battery. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4016-4021	6.1	44
257	Enhancement of the open circuit voltage of Cu ₂ O/Ga ₂ O ₃ heterojunction solar cells through the mitigation of interfacial recombination. <i>AIP Advances</i> , 2019 , 9, 055203	1.5	16
256	A Water-Miscible Quinone Flow Battery with High Volumetric Capacity and Energy Density. <i>ACS Energy Letters</i> , 2019 , 4, 1342-1348	20.1	87
255	Mapping the frontiers of quinone stability in aqueous media: implications for organic aqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12833-12841	13	78
254	A Long-Lifetime All-Organic Aqueous Flow Battery Utilizing TMAP-TEMPO Radical. <i>Chem</i> , 2019 , 5, 1861-1870	18.7	94
253	A High Voltage Aqueous Zinc/Organic Hybrid Flow Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1900694	21.8	56
252	Synthesis of volatile, reactive coinage metal 5,5-bicyclic amidinates with enhanced thermal stability for chemical vapor deposition. <i>Dalton Transactions</i> , 2019 , 48, 6709-6713	4.3	4
251	Extending the Lifetime of Organic Flow Batteries via Redox State Management. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8014-8019	16.4	93
250	A Phosphonate-Functionalized Quinone Redox Flow Battery at Near-Neutral pH with Record Capacity Retention Rate. <i>Advanced Energy Materials</i> , 2019 , 9, 1900039	21.8	122
249	Molecular Engineering of an Alkaline Naphthoquinone Flow Battery. <i>ACS Energy Letters</i> , 2019 , 4, 1880-1887	18.7	52
248	Band-Offset Analysis of Atomic Layer Deposition LaO on GaAs(111), (110), and (100) Surfaces for Epitaxial Growth. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28515-28519	9.5	5
247	A Long Lifetime Aqueous Organic Solar Flow Battery. <i>Advanced Energy Materials</i> , 2019 , 9, 1900918	21.8	23
246	Low Temperature Chemical Vapor Deposition of Cuprous Oxide Thin Films Using a Copper(I) Amidinate Precursor. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7750-7756	6.1	11
245	Atomic Layer Deposition of Tin Monosulfide Using Vapor from Liquid Bis(<i>i</i> -Propylformamidinato)tin(II) and HS. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45892-45902	9.5	8
244	Non-corrosive, low-toxicity gel-based microbattery from organic and organometallic molecules. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24784-24787	13	6
243	Total-Ionizing-Dose Responses of GaN-Based HEMTs With Different Channel Thicknesses and MOSHEMTs With Epitaxial MgCaO as Gate Dielectric. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 46-52	1.7	9
242	Flow Batteries: Alkaline Benzoquinone Aqueous Flow Battery for Large-Scale Storage of Electrical Energy (Adv. Energy Mater. 8/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870034	21.8	15
241	Alkaline Quinone Flow Battery with Long Lifetime at pH 12. <i>Joule</i> , 2018 , 2, 1894-1906	27.8	175

240	Obtaining a Low and Wide Atomic Layer Deposition Window (150-275 °C) for In ₂ O ₃ Films Using an In Amidinate and H ₂ O. <i>Chemistry - A European Journal</i> , 2018 , 24, 9525-9529	4.8	18
239	Alkaline Benzoquinone Aqueous Flow Battery for Large-Scale Storage of Electrical Energy. <i>Advanced Energy Materials</i> , 2018 , 8, 1702056	21.8	113
238	Alkaline Quinone Flow Battery with Long Lifetime at pH 12. <i>Joule</i> , 2018 , 2, 1907-1908	27.8	26
237	Vapor Deposition of Transparent, p-Type Cuprous Iodide Via a Two-Step Conversion Process. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6953-6963	6.1	5
236	Total Ionizing Dose (TID) Effects in GaAs MOSFETs With La-Based Epitaxial Gate Dielectrics. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 164-169	1.7	3
235	Comparison of Capacity Retention Rates During Cycling of Quinone-Bromide Flow Batteries. <i>MRS Advances</i> , 2017 , 2, 431-438	0.7	9
234	A Neutral pH Aqueous Organic/Organometallic Redox Flow Battery with Extremely High Capacity Retention. <i>ACS Energy Letters</i> , 2017 , 2, 639-644	20.1	273
233	Quantitative Evaluation of Cobalt Disilicide/Si Interfacial Roughness. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P345-P349	2	1
232	Pure and conformal CVD nickel and nickel monosilicide in high-aspect-ratio structures analyzed by atom probe tomography. <i>Journal of Applied Physics</i> , 2017 , 121, 175301	2.5	1
231	Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. <i>Science Advances</i> , 2017 , 3, e1700270	14.3	37
230	Synthesis of 5,5-Bicyclic Amidines as Ligands for Thermally Stable Vapor Deposition Precursors. <i>Organometallics</i> , 2017 , 36, 1453-1456	3.8	11
229	Direct-Liquid-Evaporation Chemical Vapor Deposition of Nanocrystalline Cobalt Metal for Nanoscale Copper Interconnect Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10914-10920	8.5	13
228	Vapor deposition of copper(I) bromide films via a two-step conversion process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 01B109	2.9	7
227	Anthraquinone Derivatives in Aqueous Flow Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601488	21.8	141
226	Measurement of contact resistivity at metal-tin sulfide (SnS) interfaces. <i>Journal of Applied Physics</i> , 2017 , 122, 045303	2.5	5
225	Enhancement-Mode AlGaIn/GaN Fin-MOSHEMTs on Si Substrate With Atomic Layer Epitaxy MgCaO. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1294-1297	4.4	15
224	UV-Vis spectrophotometry of quinone flow battery electrolyte for in situ monitoring and improved electrochemical modeling of potential and quinhydrone formation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31684-31691	3.6	35
223	DC and RF Performance of AlGaIn/GaN/SiC MOSHEMTs With Deep Sub-Micron T-Gates and Atomic Layer Epitaxy MgCaO as Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1409-1412	4.4	13

222	Synthesis of Calcium(II) Amidinate Precursors for Atomic Layer Deposition through a Redox Reaction between Calcium and Amidines. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10228-33	16.4	24
221	A redox-flow battery with an alloxazine-based organic electrolyte. <i>Nature Energy</i> , 2016 , 1,	62.3	307
220	Synthesis of Calcium(II) Amidinate Precursors for Atomic Layer Deposition through a Redox Reaction between Calcium and Amidines. <i>Angewandte Chemie</i> , 2016 , 128, 10384-10389	3.6	4
219	High-Performance InAlN/GaN MOSHEMTs Enabled by Atomic Layer Epitaxy MgCaO as Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2016 , 37, 556-559	4.4	34
218	Epitaxial Growth of MgCaO on GaN by Atomic Layer Deposition. <i>Nano Letters</i> , 2016 , 16, 7650-7654	11.5	26
217	Transient terahertz photoconductivity measurements of minority-carrier lifetime in tin sulfide thin films: Advanced metrology for an early stage photovoltaic material. <i>Journal of Applied Physics</i> , 2016 , 119, 035101	2.5	39
216	Device engineering towards improved tin sulfide solar cell performance and performance reproducibility 2016 ,		1
215	The impact of sodium contamination in tin sulfide thin-film solar cells. <i>APL Materials</i> , 2016 , 4, 026103	5.7	20
214	Synthetic and Spectroscopic Study of the Mechanism of Atomic Layer Deposition of Tin Dioxide. <i>Organometallics</i> , 2016 , 35, 1202-1208	3.8	9
213	A Two-Step Absorber Deposition Approach To Overcome Shunt Losses in Thin-Film Solar Cells: Using Tin Sulfide as a Proof-of-Concept Material System. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22664-70	9.5	19
212	Alkaline quinone flow battery. <i>Science</i> , 2015 , 349, 1529-32	33.3	622
211	Inversion-mode GaAs wave-shaped field-effect transistor on GaAs (100) substrate. <i>Applied Physics Letters</i> , 2015 , 106, 073506	3.4	4
210	Framework to predict optimal buffer layer pairing for thin film solar cell absorbers: A case study for tin sulfide/zinc oxysulfide. <i>Journal of Applied Physics</i> , 2015 , 118, 115102	2.5	24
209	Co-optimization of SnS absorber and Zn(O,S) buffer materials for improved solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 901-908	6.8	118
208	Making Record-efficiency SnS Solar Cells by Thermal Evaporation and Atomic Layer Deposition. <i>Journal of Visualized Experiments</i> , 2015 , e52705	1.6	16
207	Direct-liquid-evaporation chemical vapor deposition of smooth, highly conformal cobalt and cobalt nitride thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12098-12106	7.1	14
206	Improved Cu ₂ O-Based Solar Cells Using Atomic Layer Deposition to Control the Cu Oxidation State at the p-n Junction. <i>Advanced Energy Materials</i> , 2014 , 4, 1301916	21.8	132
205	A metal-free organic-inorganic aqueous flow battery. <i>Nature</i> , 2014 , 505, 195-8	50.4	1025

204	Impact of H ₂ S annealing on SnS device performance 2014 ,		3
203	3.88% efficient tin sulfide solar cells using congruent thermal evaporation. <i>Advanced Materials</i> , 2014 , 26, 7488-92	24	195
202	Atomic layer deposited gallium oxide buffer layer enables 1.2 V open-circuit voltage in cuprous oxide solar cells. <i>Advanced Materials</i> , 2014 , 26, 4704-10	24	205
201	Synthesis of N-Heterocyclic Stannylene (Sn(II)) and Germylene (Ge(II)) and a Sn(II) Amidinate and Their Application as Precursors for Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2014 , 26, 3065-3073 ^{9.6}	3.6	49
200	Overcoming Efficiency Limitations of SnS-Based Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1400496 ^{1.8}	2.8	422
199	Band offsets of n-type electron-selective contacts on cuprous oxide (Cu ₂ O) for photovoltaics. <i>Applied Physics Letters</i> , 2014 , 105, 263901	3.4	78
198	Atomic layer deposition of Al-incorporated Zn(O,S) thin films with tunable electrical properties. <i>Applied Physics Letters</i> , 2014 , 105, 202101	3.4	17
197	X-ray absorption spectroscopy elucidates the impact of structural disorder on electron mobility in amorphous zinc-tin-oxide thin films. <i>Applied Physics Letters</i> , 2014 , 104, 242113	3.4	15
196	ALD Precursors and Reaction Mechanisms 2014 , 15-46		21
195	A path to 10% efficiency for tin sulfide devices 2014 ,		8
194	Band alignment of SnS/Zn(O,S) heterojunctions in SnS thin film solar cells. <i>Applied Physics Letters</i> , 2013 , 103, 181904	3.4	68
193	Nitrogen-doped cuprous oxide as a p-type hole-transporting layer in thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15416	13	95
192	Origin of the self-limited electron densities at Al ₂ O ₃ /SnTiO ₂ heterostructures grown by atomic layer deposition - oxygen diffusion model. <i>Nanoscale</i> , 2013 , 5, 8940-4	7.7	19
191	Variability Improvement by Interface Passivation and EOT Scaling of InGaAs Nanowire MOSFETs. <i>IEEE Electron Device Letters</i> , 2013 , 34, 608-610	4.4	12
190	Enhancing the efficiency of SnS solar cells via band-offset engineering with a zinc oxysulfide buffer layer. <i>Applied Physics Letters</i> , 2013 , 102, 053901	3.4	245
189	Ultrathin amorphous zinc-tin-oxide buffer layer for enhancing heterojunction interface quality in metal-oxide solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 2112	35.4	150
188	Heteroepitaxy of La ₂ O ₃ and La(2-x)Y(x)O ₃ on GaAs (111)A by atomic layer deposition: achieving low interface trap density. <i>Nano Letters</i> , 2013 , 13, 594-9	11.5	67
187	High-Quality Epitaxy of Ruthenium Dioxide, RuO ₂ , on Rutile Titanium Dioxide, TiO ₂ , by Pulsed Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2013 , 13, 1316-1321	3.5	16

186	Effects of forming gas anneal on ultrathin InGaAs nanowire metal-oxide-semiconductor field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 093505	3.4	21
185	Atomic layer deposition of Zn(O,S) thin films with tunable electrical properties by oxygen annealing. <i>Applied Physics Letters</i> , 2013 , 102, 132110	3.4	37
184	Smooth, Low-Resistance, Pinhole-Free, Conformal Ruthenium Films by Pulsed Chemical Vapor Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, N41-N44	2	13
183	Creation and control of two-dimensional electron gas using Al-based amorphous oxides/SrTiO ₃ heterostructures grown by atomic layer deposition. <i>Nano Letters</i> , 2012 , 12, 4775-83	11.5	126
182	Atomic layer deposition of tin oxide with nitric oxide as an oxidant gas. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4599		38
181	Atomic layer deposited zinc tin oxide channel for amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , 2012 , 101, 113507	3.4	75
180	Synthesis of vanadium dioxide thin films on conducting oxides and metal-insulator transition characteristics. <i>Journal of Crystal Growth</i> , 2012 , 338, 96-102	1.6	23
179	Antimony-Doped Tin(II) Sulfide Thin Films. <i>Chemistry of Materials</i> , 2012 , 24, 4556-4562	9.6	80
178	Size-Dependent-Transport Study of $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ Gate-All-Around Nanowire MOSFETs: Impact of Quantum Confinement and Volume Inversion. <i>IEEE Electron Device Letters</i> , 2012 , 33, 967-969	4.4	44
177	Frequency response of LaAlO ₃ /SrTiO ₃ all-oxide field-effect transistors. <i>Solid-State Electronics</i> , 2012 , 76, 1-4	1.7	9
176	Glass-encapsulated light harvesters: more efficient dye-sensitized solar cells by deposition of self-aligned, conformal, and self-limited silica layers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9537-40	16.4	98
175	Atomic layer deposition of Sc ₂ O ₃ for passivating AlGaN/GaN high electron mobility transistor devices. <i>Applied Physics Letters</i> , 2012 , 101, 232109	3.4	36
174	Chemical Vapor Deposition of Cobalt Nitride and its Application as an Adhesion-Enhancing Layer for Advanced Copper Interconnects. <i>ECS Journal of Solid State Science and Technology</i> , 2012 , 1, N79-N84 ²		27
173	Thermal chemistry of copper(I)-N,N'-di-sec-butylacetamidinate on Cu(110) single-crystal surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 01A114	2.9	27
172	Vapor Deposition of Highly Conformal Copper Seed Layers for Plating Through-Silicon Vias (TSVs). <i>Journal of the Electrochemical Society</i> , 2012 , 159, D382-D385	3.9	32
171	Atomic Layer Deposition of Tin Monosulfide Thin Films. <i>Advanced Energy Materials</i> , 2011 , 1, 1116-1125	21.8	332
170	Surface Chemistry of Copper(I) Acetamidinates in Connection with Atomic Layer Deposition (ALD) Processes. <i>Chemistry of Materials</i> , 2011 , 23, 3325-3334	9.6	73
169	(Sn,Al)O _x Films Grown by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10277-10283	3.3	24

168	Three dimensional solid-state supercapacitors from aligned single-walled carbon nanotube array templates. <i>Carbon</i> , 2011 , 49, 4890-4897	10.4	70
167	Impact of ultrathin Al ₂ O ₃ barrier layer on electrical properties of LaLuO ₃ metal-oxide-semiconductor devices. <i>Applied Physics Letters</i> , 2011 , 98, 122907	3.4	11
166	Filling Narrow Trenches by Iodine-Catalyzed CVD of Copper and Manganese on Manganese Nitride Barrier/Adhesion Layers. <i>Journal of the Electrochemical Society</i> , 2011 , 158, D248	3.9	47
165	Formation of Nickel Silicide from Direct-Liquid-Injection Chemical-Vapor-Deposited Nickel Nitride Films. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H679	3.9	13
164	Heteroepitaxy of single-crystal LaLuO ₃ on GaAs(111)A by atomic layer deposition. <i>Applied Physics Letters</i> , 2010 , 97, 162910	3.4	37
163	Low Temperature Epitaxial Growth of High Permittivity Rutile TiO ₂ on SnO ₂ . <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, G75		22
162	Raman Characterization and Polarity Tuning of Aligned Single-Walled Carbon Nanotubes on Quartz. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 02BC02	1.4	1
161	Low Temperature Atomic Layer Deposition of Tin Oxide. <i>Chemistry of Materials</i> , 2010 , 22, 4964-4973	9.6	106
160	Direct-Liquid-Injection Chemical Vapor Deposition of Nickel Nitride Films and Their Reduction to Nickel Films. <i>Chemistry of Materials</i> , 2010 , 22, 3060-3066	9.6	57
159	Selective Chemical Vapor Deposition of Manganese Self-Aligned Capping Layer for Cu Interconnections in Microelectronics. <i>Journal of the Electrochemical Society</i> , 2010 , 157, D341	3.9	56
158	Surface and interface processes during atomic layer deposition of copper on silicon oxide. <i>Langmuir</i> , 2010 , 26, 3911-7	4	71
157	Uptake of Copper Acetamidinate ALD Precursors on Nickel Surfaces. <i>Chemistry of Materials</i> , 2010 , 22, 352-359	9.6	47
156	First-Principles Simulations of Conditions of Enhanced Adhesion Between Copper and TaN(111) Surfaces Using a Variety of Metallic Glue Materials. <i>Angewandte Chemie</i> , 2010 , 122, 152-156	3.6	2
155	First-principles simulations of conditions of enhanced adhesion between copper and TaN(111) surfaces using a variety of metallic glue materials. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 148-52	16.4	15
154	FTIR study of copper agglomeration during atomic layer deposition of copper. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1155, 1		4
153	Effects of Low Temperature O ₂ Treatment on the Electrical Characteristics of Amorphous LaAlO ₃ Films by Atomic Layer Deposition. <i>ECS Transactions</i> , 2009 , 16, 471-478	1	18
152	Atomic Layer Deposition of Ruthenium Thin Films from an Amidinate Precursor. <i>Chemical Vapor Deposition</i> , 2009 , 15, n/a-n/a		15
151	On the relative stability of cobalt- and nickel-based amidinate complexes against Emigration. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 756-763	2.1	13

150	Error bounds for quantum-mechanical perturbation theory. <i>International Journal of Quantum Chemistry</i> , 2009 , 2, 151-159	2.1	3
149	In Situ Infrared Characterization during Atomic Layer Deposition of Lanthanum Oxide. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 654-660	3.8	71
148	Atomic Layer Deposition of Lanthanum-Based Ternary Oxides. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, G13		34
147	Ultrathin CVD Cu Seed Layer Formation Using Copper Oxynitride Deposition and Room Temperature Remote Hydrogen Plasma Reduction. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H496	3.9	29
146	Chemical Doping of Graphene Nanoribbon Field-Effect Devices 2008 ,		4
145	Externally Assembled Gate-All-Around Carbon Nanotube Field-Effect Transistor. <i>IEEE Electron Device Letters</i> , 2008 , 29, 183-185	4.4	85
144	Ab Initio Molecular Dynamics Simulation on the Aggregation of a Cu Monolayer on a WN(001) Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9798-9802	3.8	13
143	Synthesis and characterization of volatile liquid cobalt amidinates. <i>Dalton Transactions</i> , 2008 , 2592-7	4.3	48
142	Oxide-encapsulated vertical germanium nanowire structures and their DC transport properties. <i>Nanotechnology</i> , 2008 , 19, 485705	3.4	9
141	Synthesis and Characterization of Ruthenium Amidinate Complexes as Precursors for Vapor Deposition. <i>Open Inorganic Chemistry Journal</i> , 2008 , 2, 11-17		11
140	Computational Study on the Relative Reactivities of Cobalt and Nickel Amidinates via H Migration. <i>Organometallics</i> , 2007 , 26, 2803-2805	3.8	26
139	Density Function Theory Study of Copper Agglomeration on the WN(001) Surface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9403-9406	3.8	16
138	Error Bounds and Spectral Densities. <i>Advances in Chemical Physics</i> , 2007 , 79-99		22
137	Synthesis and Sublimation Kinetics of a Highly Volatile Asymmetric Iron(II) Amidinate. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 1135-1142	2.3	2
136	Atmospheric pressure chemical vapor deposition of transparent conducting films of fluorine doped zinc oxide and their application to amorphous silicon solar cells. <i>Journal of Materials Science</i> , 2007 , 42, 6388-6399	4.3	61
135	High density Ru nanocrystal deposition for nonvolatile memory applications. <i>Journal of Applied Physics</i> , 2007 , 101, 124503	2.5	58
134	Atomic layer deposition of insulating nitride interfacial layers for germanium metal oxide semiconductor field effect transistors with high-oxide/tungsten nitride gate stacks. <i>Applied Physics Letters</i> , 2007 , 90, 212104	3.4	53
133	In-situ FTIR Study of Atomic Layer Deposition (ALD) of Copper Metal Films. <i>ECS Transactions</i> , 2007 , 11, 91-101	1	24

132	Vapor Deposition of Ruthenium from an Amidinate Precursor. <i>Journal of the Electrochemical Society</i> , 2007 , 154, D642	3.9	75
131	Atomic Layer Deposition of Praseodymium Aluminum Oxide for Electrical Applications. <i>Chemical Vapor Deposition</i> , 2006 , 12, 152-157		26
130	Thin, Continuous, and Conformal Copper Films by Reduction of Atomic Layer Deposited Copper Nitride. <i>Chemical Vapor Deposition</i> , 2006 , 12, 435-441		57
129	ALD of Scandium Oxide from Scandium Tris(N,N[[?]]-diisopropylacetamidate) and Water. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, F45		28
128	Atomic layer deposition of gadolinium scandate films with high dielectric constant and low leakage current. <i>Applied Physics Letters</i> , 2006 , 89, 133512	3.4	51
127	Atomic Layer Deposition of Ultrathin Copper Metal Films from a Liquid Copper(I) Amidinate Precursor. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C787	3.9	180
126	Atomic layer deposition on suspended single-walled carbon nanotubes via gas-phase noncovalent functionalization. <i>Nano Letters</i> , 2006 , 6, 699-703	11.5	200
125	Atomic Layer Deposition of Y ₂ O ₃ Thin Films from Yttrium Tris(N,N-diisopropylacetamidate) and Water. <i>Chemistry of Materials</i> , 2005 , 17, 4808-4814	9.6	115
124	Tantalum(V) nitride inverse opals as photonic structures for visible wavelengths. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3764-71	3.4	53
123	High performance n-type carbon nanotube field-effect transistors with chemically doped contacts. <i>Nano Letters</i> , 2005 , 5, 345-8	11.5	379
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- 1 Theoretical and Experimental Investigation of the Stability Limits of Quinones in Aqueous Media: Implications for Organic Aqueous Redox Flow Batteries 5