

Michael J Pellin

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.

210
papers

9,882
citations

53
h-index

91
g-index

222
ext. papers

10,602
ext. citations

5.9
avg, IF

5.87
L-index

#	Paper	IF	Citations
210	Structural reversibility of Cu doped NU-1000 MOFs under hydrogenation conditions. <i>Journal of Chemical Physics</i> , 2020 , 152, 084703	3.9	8
209	Oxidative Dehydrogenation of Cyclohexane by Cu vs Pd Clusters: Selectivity Control by Specific Cluster Dynamics. <i>ChemCatChem</i> , 2020 , 12, 1307-1315	5.2	14
208	Molybdenum Isotopes in Presolar Silicon Carbide Grains: Details of s-process Nucleosynthesis in Parent Stars and Implications for r- and p-processes. <i>Astrophysical Journal</i> , 2019 , 877, 101	4.7	17
207	Dynamic Interplay between Copper Tetramers and Iron Oxide Boosting CO ₂ Conversion to Methanol and Hydrocarbons under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14435-14442	8.3	9
206	Mapping XANES spectra on structural descriptors of copper oxide clusters using supervised machine learning. <i>Journal of Chemical Physics</i> , 2019 , 151, 164201	3.9	31
205	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. <i>Astrophysical Journal</i> , 2019 , 881, 28	4.7	14
204	Nanoassemblies of ultrasmall clusters with remarkable activity in carbon dioxide conversion into C ₁ fuels. <i>Nanoscale</i> , 2019 , 11, 4683-4687	7.7	6
203	Acid-Compatible Halide Perovskite Photocathodes Utilizing Atomic Layer Deposited TiO ₂ for Solar-Driven Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019 , 4, 293-298	20.1	49
202	Using first principles calculations to interpret XANES experiments: extracting the size-dependence of the (p, T) phase diagram of sub-nanometer Cu clusters in an O environment. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 144002	1.8	5
201	New Constraints on the Abundance of ⁶⁰ Fe in the Early Solar System. <i>Astrophysical Journal Letters</i> , 2018 , 857, L15	7.9	26
200	Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 16-22	2.3	16
199	Cover Feature: Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects (Eur. J. Inorg. Chem. 1/2018). <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3-3	2.3	
198	Bimetallic Ag-Pt Sub-nanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. <i>Angewandte Chemie</i> , 2018 , 130, 1223-1227	3.6	2
197	Water Oxidation Catalysis via Size-Selected Iridium Clusters. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9965-9972	3.8	14
196	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILIPtwo types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 109-126	5.5	18
195	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 87-108	5.5	20
194	Potassic, high-silica Hadean crust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6353-6356	11.5	21

193	Iron and nickel isotope compositions of presolar silicon carbide grains from supernovae. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 127-144	5.5	7
192	Bimetallic Ag-Pt Sub-nanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1209-1213	16.4	31
191	Subnanometer Substructures in Nanoassemblies Formed from Clusters under a Reactive Atmosphere Revealed Using Machine Learning. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21686-21693	3.8	48
190	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. <i>Astrophysical Journal</i> , 2018 , 855, 144	4.7	9
189	Low-Temperature Atomic Layer Deposition of CuSbS for Thin-Film Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4667-4673	9.5	37
188	Inhibiting Metal Oxide Atomic Layer Deposition: Beyond Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33429-33436	9.5	22
187	Laser Ablation of Sub-10 nm Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9552-9559	3.8	4
186	Heavy ion linear accelerator for radiation damage studies of materials. <i>Review of Scientific Instruments</i> , 2017 , 88, 033302	1.7	5
185	Determining the Conduction Band-Edge Potential of Solar-Cell-Relevant NbO Fabricated by Atomic Layer Deposition. <i>Langmuir</i> , 2017 , 33, 9298-9306	4	12
184	Size-Selective Reactivity of Subnanometer Ag ₄ and Ag ₁₆ Clusters on a TiO ₂ Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6614-6625	3.8	18
183	J-type Carbon Stars: A Dominant Source of 14 N-rich Presolar SiC Grains of Type AB. <i>Astrophysical Journal Letters</i> , 2017 , 844, L12	7.9	18
182	Water Oxidation by Size-Selected Co Clusters Supported on Fe O. <i>ChemSusChem</i> , 2016 , 9, 3005-3011	8.3	12
181	Porphyryns as Templates for Site-Selective Atomic Layer Deposition: Vapor Metalation and in Situ Monitoring of Island Growth. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19853-9	9.5	14
180	In situ study of the electronic structure of atomic layer deposited oxide ultrathin films upon oxygen adsorption using ambient pressure XPS. <i>Catalysis Science and Technology</i> , 2016 , 6, 6778-6783	5.5	11
179	Temperature-Dependent Evolution of the Oxidation States of Cobalt and Platinum in Co _{1-x} Ptx Clusters under H ₂ and CO + H ₂ Atmospheres. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21496-21504	3.8	10
178	CHILI The Chicago Instrument for Laser Ionization A new tool for isotope measurements in cosmochemistry. <i>International Journal of Mass Spectrometry</i> , 2016 , 407, 1-15	1.9	52
177	Atomic Layer Deposition of MnS: Phase Control and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2774-80	9.5	47
176	Characterization of high energy Xe ion irradiation effects in single crystal molybdenum with depth-resolved synchrotron microbeam diffraction. <i>Journal of Nuclear Materials</i> , 2016 , 471, 272-279	3.3	7

175	MeV per nucleon ion irradiation of nuclear materials with high energy synchrotron X-ray characterization. <i>Journal of Nuclear Materials</i> , 2016 , 471, 266-271	3.3	12
174	One Electron Changes Everything. A Multispecies Copper Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3731-3740	3.8	40
173	Investigation of High-Energy Ion-Irradiated MA957 Using Synchrotron Radiation under Tension. <i>Materials</i> , 2016 , 9,	3.5	9
172	Engendering Long-Term Air and Light Stability of a TiO-Supported Porphyrinic Dye via Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34863-34869	9.5	3
171	High-mass heterogeneous cluster formation by ion bombardment of the ternary alloy Au ₇ Cu ₅ Al ₄ . <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 03H108	1.3	
170	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. <i>Astrophysical Journal</i> , 2015 , 803, 12	4.7	49
169	Analysis of Nb ₃ Sn surface layers for superconducting radio frequency cavity applications. <i>Applied Physics Letters</i> , 2015 , 106, 082602	3.4	24
168	Dynamics of Back Electron Transfer in Dye-Sensitized Solar Cells Featuring 4-tert-Butyl-Pyridine and Atomic-Layer-Deposited Alumina as Surface Modifiers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7162-9	3.4	14
167	Point contact tunneling spectroscopy apparatus for large scale mapping of surface superconducting properties. <i>Review of Scientific Instruments</i> , 2015 , 86, 095111	1.7	5
166	Metal-Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28223-30	9.5	126
165	Fabrication of transparent-conducting-oxide-coated inverse opals as mesostructured architectures for electrocatalysis applications: a case study with NiO. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12290-4	9.5	26
164	Real-time observation of atomic layer deposition inhibition: metal oxide growth on self-assembled alkanethiols. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11891-8	9.5	53
163	High-surface-area architectures for improved charge transfer kinetics at the dark electrode in dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8646-50	9.5	14
162	Atom-Probe Tomography of Meteoritic Nanodiamonds.. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1676-1677	3.5	1
161	Atom-probe analyses of nanodiamonds from Allende. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 453-467	3.8	57
160	Tunneling spectroscopy of superconducting MoN and NbTiN grown by atomic layer deposition. <i>Applied Physics Letters</i> , 2014 , 104, 092602	3.4	7
159	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FOR s-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014 , 786, 66	4.7	52
158	Depth profile of oxide volume fractions of Zircaloy-2 in high-temperature steam: An in-situ synchrotron radiation study. <i>Journal of Nuclear Materials</i> , 2014 , 454, 192-199	3.3	2

157	THE ¹³ C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. <i>Astrophysical Journal</i> , 2014 , 788, 163	4.7	32
156	RIMS analysis of ion induced fragmentation of molecules sputtered from an enriched U ₃ O ₈ matrix. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 296, 407-412	1.5	6
155	Hematite-based photo-oxidation of water using transparent distributed current collectors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 360-7	9.5	64
154	Distance-Engineered Plasmon-Enhanced Light Harvesting in CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3527-3533	6.4	39
153	Low temperature atomic layer deposition of highly photoactive hematite using iron(III) chloride and water. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11607	13	35
152	Solvent-assisted linker exchange (SALE) and post-assembly metallation in porphyrinic metal-organic framework materials. <i>Chemical Science</i> , 2013 , 4, 1509	9.4	130
151	Interfaces and Composition Profiles in Metal-Sulfide Nanolayers Synthesized by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2013 , 25, 313-319	9.6	33
150	High sensitivity sputter neutral mass spectrometry of sputtering of neutral mixed clusters from gold-aluminum alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 115-120	1.2	3
149	Combining Atom-Probe Tomography and Focused-Ion Beam Microscopy to Study Individual Presolar Meteoritic Nanodiamond Particles. <i>Microscopy and Microanalysis</i> , 2013 , 19, 974-975	0.5	12
148	Atomic layer deposition of a submonolayer catalyst for the enhanced photoelectrochemical performance of water oxidation with hematite. <i>ACS Nano</i> , 2013 , 7, 2396-405	16.7	232
147	Effects of adsorbed pyridine derivatives and ultrathin atomic-layer-deposited alumina coatings on the conduction band-edge energy of TiO ₂ and on redox-shuttle-derived dark currents. <i>Langmuir</i> , 2013 , 29, 806-14	4	33
146	Size-dependent subnanometer Pd cluster (Pd ₄ , Pd ₆ , and Pd ₁₇) water oxidation electrocatalysis. <i>ACS Nano</i> , 2013 , 7, 5808-17	16.7	125
145	Templating sub-10 nm atomic layer deposited oxide nanostructures on graphene via one-dimensional organic self-assembled monolayers. <i>Nano Letters</i> , 2013 , 13, 5763-70	11.5	36
144	Structural, optical, and electronic stability of copper sulfide thin films grown by atomic layer deposition. <i>Energy and Environmental Science</i> , 2013 , 6, 1868	35.4	81
143	Heteroepitaxy of group IV-VI nitrides by atomic layer deposition. <i>Applied Physics Letters</i> , 2013 , 103, 211602	3.2	13
142	Thermal conductivity of Er ³⁺ :Y ₂ O ₃ films grown by atomic layer deposition. <i>Applied Physics Letters</i> , 2013 , 103, 193109	3.4	6
141	An Inert Metal Anode for Magnesium Electrowinning 2013 , 21-26		
140	High aspect ratio nanoneedle probes with an integrated electrode at the tip apex. <i>Review of Scientific Instruments</i> , 2012 , 83, 113704	1.7	17

139	Fast transporting ZnO-TiO ₂ coaxial photoanodes for dye-sensitized solar cells based on ALD-modified SiO ₂ aerogel frameworks. <i>ACS Nano</i> , 2012 , 6, 6185-96	16.7	72
138	Energy Levels, Electronic Properties, and Rectification in Ultrathin p-NiO Films Synthesized by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16830-16840	3.8	71
137	High-resolution secondary ion mass spectrometry depth profiling of nanolayers. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2224-30	2.2	13
136	Atomic Layer Deposition of the Quaternary Chalcogenide Cu ₂ ZnSnS ₄ . <i>Chemistry of Materials</i> , 2012 , 24, 3188-3196	9.6	65
135	Surface impedance of superconductors with magnetic impurities. <i>Physical Review B</i> , 2012 , 86,	3.3	10
134	Ion Exchange in Ultrathin Films of Cu ₂ S and ZnS under Atomic Layer Deposition Conditions. <i>Chemistry of Materials</i> , 2011 , 23, 4411-4413	9.6	45
133	Seeding atomic layer deposition of high-k dielectrics on epitaxial graphene with organic self-assembled monolayers. <i>ACS Nano</i> , 2011 , 5, 5223-32	16.7	149
132	Conductive atomic force microscope nanopatterning of epitaxial graphene on SiC(0001) in ambient conditions. <i>Advanced Materials</i> , 2011 , 23, 2181-4	24	31
131	Size-dependent selectivity and activity of silver nanoclusters in the partial oxidation of propylene to propylene oxide and acrolein: A joint experimental and theoretical study. <i>Catalysis Today</i> , 2011 , 160, 116-130	5.3	102
130	Atomic Layer Deposition of Fe ₂ O ₃ Using Ferrocene and Ozone. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4333-4339	3.8	108
129	Atomic Layer Deposition of Amorphous Niobium Carbide-Based Thin Film Superconductors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25063-25071	3.8	28
128	Atomic Layer Deposition and Superconducting Properties of NbSi Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9477-9485	3.8	14
127	Development of ultrananocrystalline diamond (UNCD) coatings for multipurpose mechanical pump seals. <i>Wear</i> , 2011 , 270, 325-331	3.5	34
126	(Invited) Atomic Layer Deposition of Superconductors. <i>ECS Transactions</i> , 2011 , 41, 237-245	1	13
125	Dye-sensitized solar cells: driving-force effects on electron recombination dynamics with cobalt-based shuttles. <i>Langmuir</i> , 2010 , 26, 9082-7	4	100
124	Oxidative Decomposition of Methanol on Subnanometer Palladium Clusters: The Effect of Catalyst Size and Support Composition. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10342-10348	3.8	67
123	Integrated ultramicroelectrode-nanopipet probe for concurrent scanning electrochemical microscopy and scanning ion conductance microscopy. <i>Analytical Chemistry</i> , 2010 , 82, 1270-6	7.8	141
122	Atomic Layer Deposition of Aluminum Oxide in Mesoporous Silica Gel. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17286-17292	3.8	60

121	Atomic layer deposition-based functionalization of materials for medical and environmental health applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 2033-64	3	32
120	Ion microscopy with resonant ionization mass spectrometry: time-of-flight depth profiling with improved isotopic precision. <i>European Journal of Mass Spectrometry</i> , 2010 , 16, 373-7	1.1	1
119	Oxidative dehydrogenation of cyclohexane over alumina-supported vanadium oxide nanoliths. <i>Journal of Catalysis</i> , 2010 , 269, 421-431	7.3	80
118	Tuning the Composition and Nanostructure of Pt/Ir Films via Anodized Aluminum Oxide Templated Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2010 , 20, 3099-3105	15.6	51
117	Synthesis of nanoporous activated iridium oxide films by anodized aluminum oxide templated atomic layer deposition. <i>Electrochemistry Communications</i> , 2010 , 12, 1543-1546	5.1	17
116	Atomic layer deposition of nanoporous biomaterials. <i>Materials Today</i> , 2010 , 13, 60-64	21.8	26
115	Tunneling Study of SRF Cavity-Grade Niobium. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 1404-1408	1.8	10
114	Selective propene epoxidation on immobilized au(6-10) clusters: the effect of hydrogen and water on activity and selectivity. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1467-71	16.4	224
113	Formation of neutral clusters during sputtering of gold. <i>Surface Science</i> , 2009 , 603, 819-825	1.8	9
112	Sputtering of clusters from copper/gold alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 2757-2760	1.2	5
111	Atomic layer deposition of TiO ₂ thin films on nanoporous alumina templates: Medical applications. <i>Jom</i> , 2009 , 61, 12-16	2.1	34
110	Subnanometre platinum clusters as highly active and selective catalysts for the oxidative dehydrogenation of propane. <i>Nature Materials</i> , 2009 , 8, 213-6	27	631
109	Resonance ionization mass spectrometry for precise measurements of isotope ratios. <i>International Journal of Mass Spectrometry</i> , 2009 , 288, 36-43	1.9	40
108	Catalytic nanoliths. <i>Chemical Engineering Science</i> , 2009 , 64, 560-567	4.4	36
107	Sputtering of neutral clusters from silver/gold alloys. <i>Applied Surface Science</i> , 2009 , 256, 991-994	6.7	3
106	Atomic layer deposition of Cu ₂ S for future application in photovoltaics. <i>Applied Physics Letters</i> , 2009 , 94, 123107	3.4	72
105	Electron transport in dye-sensitized solar cells based on ZnO nanotubes: evidence for highly efficient charge collection and exceptionally rapid dynamics. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4015-21	2.8	240
104	Laser-induced desorption of organic molecules from front- and back-irradiated metal foils 2009 ,		3

103	Atomic Layer Deposition of Indium Tin Oxide Thin Films Using Nonhalogenated Precursors. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1938-1945	3.8	94
102	Atomic Layer Deposition of TiO ₂ on Aerogel Templates: New Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10303-10307	3.8	112
101	Radial electron collection in dye-sensitized solar cells. <i>Nano Letters</i> , 2008 , 8, 2862-6	11.5	124
100	Atomic layer deposition of tin oxide films using tetrakis(dimethylamino) tin. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 244-252	2.9	129
99	Nanoporous materials for biomedical devices. <i>Jom</i> , 2008 , 60, 26-32	2.1	55
98	New architectures for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2008 , 14, 4458-67	4.8	242
97	Aerogel Templated ZnO Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2008 , 20, 1560-1564	24	124
96	Efficient multiple beam ion optics for quantitative surface analysis: from simulations to a fully operational instrument. <i>Physics Procedia</i> , 2008 , 1, 379-389		11
95	Conformal ZnO coatings on high surface area silica gel using atomic layer deposition. <i>Thin Solid Films</i> , 2008 , 516, 6158-6166	2.2	85
94	Investigation of radiation enhanced diffusion of magnesium in substrates flown on the NASA genesis mission. <i>Applied Surface Science</i> , 2008 , 255, 1455-1457	6.7	5
93	Laser-driven acoustic desorption of organic molecules from back-irradiated solid foils. <i>Analytical Chemistry</i> , 2007 , 79, 8232-41	7.8	47
92	Detection of in situ derivatized peptides in microbial biofilms by laser desorption 7.87 eV postionizaton mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 508-14	7.8	28
91	ZnO nanotube based dye-sensitized solar cells. <i>Nano Letters</i> , 2007 , 7, 2183-7	11.5	682
90	Mass spectrometry on the nanoscale with ion sputtering based techniques: What is feasible. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 261, 508-511	1.2	21
89	Spatially Controlled Atomic Layer Deposition in Porous Membranes. <i>ECS Transactions</i> , 2007 , 11, 177-184		3
88	Transparent Conducting Oxides at High Aspect Ratios by ALD. <i>ECS Transactions</i> , 2006 , 3, 243-247	1	2
87	Nucleation and Growth of Noble Metals on Oxide Surfaces Using Atomic Layer Deposition. <i>ECS Transactions</i> , 2006 , 3, 271-278	1	50
86	Atomic Layer Deposition of Uniform Metal Coatings on Highly Porous Aerogel Substrates. <i>Chemistry of Materials</i> , 2006 , 18, 6106-6108	9.6	38

85	Vacuum ultraviolet postionization of aromatic groups covalently bound to peptides. <i>Analytical Chemistry</i> , 2006 , 78, 5876-83	7.8	23
84	Imaging of atomic layer deposited (ALD) tungsten monolayers on alpha-TiO ₂ (110) by X-ray standing wave Fourier inversion. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12616-20	3.4	24
83	Atomic Layer Deposition of In ₂ O ₃ Using Cyclopentadienyl Indium: A New Synthetic Route to Transparent Conducting Oxide Films. <i>Chemistry of Materials</i> , 2006 , 18, 3571-3578	9.6	103
82	Atomic Layer Deposition for the Conformal Coating of Nanoporous Materials. <i>Journal of Nanomaterials</i> , 2006 , 2006, 1-5	3.2	71
81	Multi-element isotopic analysis of single presolar SiC grains. <i>New Astronomy Reviews</i> , 2006 , 50, 587-590	7.9	14
80	Sputtering of clusters from nickel/aluminium. <i>Applied Surface Science</i> , 2006 , 252, 6426-6428	6.7	8
79	7.87 eV postionization of peptides containing tryptophan or derivatized with fluorescein. <i>Applied Surface Science</i> , 2006 , 252, 6723-6726	6.7	17
78	Etching of hexagonal SiC surfaces in chlorine-containing gas media at ambient pressure. <i>Surface Science</i> , 2006 , 600, 2242-2251	1.8	14
77	Atomic layer deposition of palladium films on Al ₂ O ₃ surfaces. <i>Thin Solid Films</i> , 2006 , 515, 1664-1673	2.2	140
76	Reactivity of supported platinum nanoclusters studied by in situ GISAXS: clusters stability under hydrogen. <i>Topics in Catalysis</i> , 2006 , 39, 145-149	2.3	70
75	Supported gold clusters and cluster-based nanomaterials: characterization, stability and growth studies by in situ GISAXS under vacuum conditions and in the presence of hydrogen. <i>Topics in Catalysis</i> , 2006 , 39, 161-166	2.3	67
74	Effect of atomic layer deposition coatings on the surface structure of anodic aluminum oxide membranes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14059-63	3.4	96
73	Laser post-ionization secondary neutral mass spectrometry for ultra-trace analysis of samples from space return missions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 241, 356-360	1.2	26
72	Photocatalytic degradation of methylene blue on nanocrystalline TiO ₂ : Surface mass spectrometry of reaction intermediates. <i>International Journal of Mass Spectrometry</i> , 2005 , 245, 61-67	1.9	102
71	Mesoporous catalytic membranes: Synthetic control of pore size and wall composition. <i>Catalysis Letters</i> , 2005 , 102, 127-130	2.8	90
70	Extinct technetium in silicon carbide stardust grains: implications for stellar nucleosynthesis. <i>Science</i> , 2004 , 303, 649-52	33.3	68
69	A new time-of-flight instrument for quantitative surface analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 473-479	1.2	24
68	Calculating time-of-flight spectra of post-ionized sputtered neutrals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 1051-1057	1.2	9

67	Computer simulation of time-of-flight mass spectrometers: calculations of mass spectra and spatial distributions of ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 519, 345-352	1.2	9
66	A virtual reality instrument: near-future perspective of computer simulations of ion optics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 519, 363-372	1.2	10
65	Coating of SiC surface by thin carbon films using the carbide-derived carbon process. <i>Thin Solid Films</i> , 2004 , 469-470, 135-141	2.2	11
64	Ion optics of a new time-of-flight mass spectrometer for quantitative surface analysis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 519, 353-362	1.2	22
63	A new horizon in secondary neutral mass spectrometry: post-ionization using a VUV free electron laser. <i>Applied Surface Science</i> , 2004 , 231-232, 962-966	6.7	10
62	Derivatization of surface-bound peptides for mass spectrometric detection via threshold single photon ionization. <i>Analytical Chemistry</i> , 2004 , 76, 4267-70	7.8	16
61	Isotopic Compositions of Strontium, Zirconium, Molybdenum, and Barium in Single Presolar SiC Grains and Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2003 , 593, 486-508	4.7	161
60	Estimation of useful yield in surface analysis using single photon ionisation. <i>Applied Surface Science</i> , 2003 , 203-204, 244-247	6.7	21
59	Analyzing individual presolar grains with CHARISMA. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 3215-3225	3.5	66
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