

Michael J Pellin

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210
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222
ext. papers

10,602
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
210	ZnO nanotube based dye-sensitized solar cells. <i>Nano Letters</i> , 2007 , 7, 2183-7	11.5	682
209	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
208	Triplet states of fullerenes C60 and C70. Electron paramagnetic resonance spectra, photophysics, and electronic structures. <i>Journal of the American Chemical Society</i> , 1991 , 113, 2774-2776	16.4	290
207	New architectures for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2008 , 14, 4458-67	4.8	242
206	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
205	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
204	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
203	High-yield synthesis, separation, and mass-spectrometric characterization of fullerenes C60 to C266. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7499-7503	16.4	164
202	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
201	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
200	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
199	Atomic layer deposition of palladium films on Al2O3 surfaces. <i>Thin Solid Films</i> , 2006 , 515, 1664-1673	2.2	140
198	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
197	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
196	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
195	Size-dependent subnanometer Pd cluster (Pd4, Pd6, and Pd17) water oxidation electrocatalysis. <i>ACS Nano</i> , 2013 , 7, 5808-17	16.7	125
194	Radial electron collection in dye-sensitized solar cells. <i>Nano Letters</i> , 2008 , 8, 2862-6	11.5	124

193	Aerogel Templated ZnO Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2008 , 20, 1560-1564	24	124
192	s-Process Zirconium in Presolar Silicon Carbide Grains. <i>Science</i> , 1997 , 277, 1281-1284	33.3	120
191	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
190	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
189	Molybdenum Isotopic Composition of Individual Presolar Silicon Carbide Grains from the Murchison Meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1998 , 62, 1093-1104	5.5	103
188	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
187	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
186	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
185	Dye-sensitized solar cells: driving-force effects on electron recombination dynamics with cobalt-based shuttles. <i>Langmuir</i> , 2010 , 26, 9082-7	4	100
184	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
183	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
182	Mesoporous catalytic membranes: Synthetic control of pore size and wall composition. <i>Catalysis Letters</i> , 2005 , 102, 127-130	2.8	90
181	Two-Laser Mass Spectrometry of Thiolate, Disulfide, and Sulfide Self-Assembled Monolayers. <i>Langmuir</i> , 1998 , 14, 1664-1673	4	85
180	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
179	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
178	Oxidative dehydrogenation of cyclohexane over alumina-supported vanadium oxide nanoliths. <i>Journal of Catalysis</i> , 2010 , 269, 421-431	7.3	80
177	Primary photochemistry of the reaction center of photosystem I. <i>FEBS Letters</i> , 1979 , 100, 1-4	3.8	78
176	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

175	Atomic layer deposition of Cu ₂ S for future application in photovoltaics. <i>Applied Physics Letters</i> , 2009 , 94, 123107	3.4	72
174	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
173	Atomic Layer Deposition for the Conformal Coating of Nanoporous Materials. <i>Journal of Nanomaterials</i> , 2006 , 2006, 1-5	3.2	71
172	Yields and kinetic energy distributions of sputtered neutral copper clusters. <i>Surface Science</i> , 1991 , 259, 275-287	1.8	71
171	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
170	Extinct technetium in silicon carbide stardust grains: implications for stellar nucleosynthesis. <i>Science</i> , 2004 , 303, 649-52	33.3	68
169	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
168	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
167	Analyzing individual presolar grains with CHARISMA. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 3215-3225	3.5	66
166	New findings on the sputtering of neutral metal clusters. <i>Surface Science</i> , 1993 , 298, 161-172	1.8	66
165	Atomic Layer Deposition of the Quaternary Chalcogenide Cu ₂ ZnSnS ₄ . <i>Chemistry of Materials</i> , 2012 , 24, 3188-3196	9.6	65
164	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 3201-3214	5.5	65
163	Hematite-based photo-oxidation of water using transparent distributed current collectors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 360-7	9.5	64
162	Zirconium and Molybdenum in Individual Circumstellar Graphite Grains: New Isotopic Data on the Nucleosynthesis of Heavy Elements. <i>Astrophysical Journal</i> , 1998 , 504, 492-499	4.7	63
161	Atomic Layer Deposition of Aluminum Oxide in Mesoporous Silica Gel. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17286-17292	3.8	60
160	Atom-probe analyses of nanodiamonds from Allende. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 453-467	7.8	57
159	Nanoporous materials for biomedical devices. <i>Jom</i> , 2008 , 60, 26-32	2.1	55
158	Fullerenes and giant fullerenes: Synthesis, separation, and mass spectrometric characterization. <i>Carbon</i> , 1992 , 30, 1167-1182	10.4	55

157	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
156	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
155	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
154	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
153	Nucleation and Growth of Noble Metals on Oxide Surfaces Using Atomic Layer Deposition. <i>ECS Transactions</i> , 2006 , 3, 271-278	1	50
152	Kinetic energy distributions of sputtered neutral aluminum clusters: A1-A16. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 82, 329-336	1.2	50
151	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
150	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
149	Sputtering Products of Sodium Sulfate: Implications for Io's Surface and for Sodium-Bearing Molecules in the Io Torus. <i>Icarus</i> , 1997 , 128, 386-397	3.8	48
148	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
147	Atomic Layer Deposition of MnS: Phase Control and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2774-80	9.5	47
146	Laser-driven acoustic desorption of organic molecules from back-irradiated solid foils. <i>Analytical Chemistry</i> , 2007 , 79, 8232-41	7.8	47
145	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
144	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
143	Resonance ionization mass spectrometry for precise measurements of isotope ratios. <i>International Journal of Mass Spectrometry</i> , 2009 , 288, 36-43	1.9	40
142	Projection Photolithography Utilizing a Schwarzschild Microscope and Self-Assembled Alkanethiol Monolayers as Simple Photoresists. <i>Langmuir</i> , 1996 , 12, 2121-2124	4	40
141	Distance-Engineered Plasmon-Enhanced Light Harvesting in CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3527-3533	6.4	39
140	Atomic Layer Deposition of Uniform Metal Coatings on Highly Porous Aerogel Substrates. <i>Chemistry of Materials</i> , 2006 , 18, 6106-6108	9.6	38

139	Velocity distribution of sputtered Zr atoms as determined by laser induced fluorescence spectroscopy. <i>Surface Science</i> , 1981 , 110, 151-178	1.8	38
138	Low-Temperature Atomic Layer Deposition of CuSbS for Thin-Film Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4667-4673	9.5	37
137	Velocity distributions and photodissociation of neutral C60 and C70 clusters. <i>Journal of Applied Physics</i> , 1991 , 70, 6647-6652	2.5	37
136	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
135	Catalytic nanoliths. <i>Chemical Engineering Science</i> , 2009 , 64, 560-567	4.4	36
134	Laser fluorescence spectroscopy of sputtered uranium atoms. <i>Nuclear Instruments & Methods</i> , 1980 , 170, 295-302		36
133	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
132	Laser-based secondary neutral mass spectroscopy: Useful yield and sensitivity. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 27, 119-129	1.2	35
131	Atomic layer deposition of TiO ₂ thin films on nanoporous alumina templates: Medical applications. <i>Jom</i> , 2009 , 61, 12-16	2.1	34
130	Development of ultrananocrystalline diamond (UNCD) coatings for multipurpose mechanical pump seals. <i>Wear</i> , 2011 , 270, 325-331	3.5	34
129	Neutral copper cluster sputtering yields: Ne ⁺ Ar ⁺ and Xe ⁺ bombardment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994 , 90, 518-522	1.2	34
128	Interfaces and Composition Profiles in MetalSulfide Nanolayers Synthesized by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2013 , 25, 313-319	9.6	33
127	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
126	Endoexcimer laser intraocular ablative photodecomposition. <i>American Journal of Ophthalmology</i> , 1985 , 99, 483-4	4.9	33
125	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
124	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
123	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
122	Conductive atomic force microscope nanopatterning of epitaxial graphene on SiC(0001) in ambient conditions. <i>Advanced Materials</i> , 2011 , 23, 2181-4	24	31

121	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
120	Surface Analysis by SNMS: Femtosecond Laser Postionization of Sputtered and Laser Desorbed Atoms. <i>Surface and Interface Analysis</i> , 1996 , 24, 363-370	1.5	30
119	First easily reproduced solution-phase synthesis and confirmation of superconductivity in the fullerene KxC60 (Tc = 18.0 +/- 0.1 K). <i>Inorganic Chemistry</i> , 1991 , 30, 2838-2839	5.1	30
118	In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria. <i>Nature</i> , 1979 , 278, 54-55	50.4	30
117	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
116	Detection of in situ derivatized peptides in microbial biofilms by laser desorption 7.87 eV postionization mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 508-14	7.8	28
115	Picosecond photophysics of covalently linked pyrochlorophyllide a dimer. Unique kinetics within the singlet manifold. <i>Journal of the American Chemical Society</i> , 1980 , 102, 1868-1873	16.4	27
114	New Constraints on the Abundance of 60 Fe in the Early Solar System. <i>Astrophysical Journal Letters</i> , 2018 , 857, L15	7.9	26
113	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
112	Atomic layer deposition of nanoporous biomaterials. <i>Materials Today</i> , 2010 , 13, 60-64	21.8	26
111	Surface mass spectrometry of biotinylated self-assembled monolayers. <i>Analytical Chemistry</i> , 1997 , 69, 4331-8	7.8	26
110	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
109	X-ray absorption near edge structure in solid Kr and KrF2. <i>Solid State Communications</i> , 1983 , 46, 803-806	1.6	25
108	Analysis of Nb3Sn surface layers for superconducting radio frequency cavity applications. <i>Applied Physics Letters</i> , 2015 , 106, 082602	3.4	24
107	Imaging of atomic layer deposited (ALD) tungsten monolayers on alpha-TiO2(110) by X-ray standing wave Fourier inversion. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12616-20	3.4	24
106	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
105	Vacuum ultraviolet postionization of aromatic groups covalently bound to peptides. <i>Analytical Chemistry</i> , 2006 , 78, 5876-83	7.8	23
104	Molecular analysis by ionization of laser-desorbed neutral species. <i>Applied Optics</i> , 1993 , 32, 857-66	1.7	23

103	Inhibiting Metal Oxide Atomic Layer Deposition: Beyond Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33429-33436	9.5	22
102	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
101	Trace surface analysis: 30 ppb analysis with removal of less than a monolayer. Fe and Ti impurities in the first atomic layer of Si wafers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986 , 13, 653-657	1.2	22
100	Oxygen and titanium sputtering yields as determined by laser fluorescence and auger electron spectroscopy for monolayer oxygen coverage of polycrystalline Ti. <i>Journal of Nuclear Materials</i> , 1982 , 111-112, 738-743	3.3	22
99	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
98	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
97	Estimation of useful yield in surface analysis using single photon ionisation. <i>Applied Surface Science</i> , 2003 , 203-204, 244-247	6.7	21
96	Oxygen underlayer formation on titanium by static mode laser fluorescence and auger spectroscopy. <i>Surface Science</i> , 1985 , 151, 477-502	1.8	21
95	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 87-108	5.5	20
94	Low primary ion fluence dependence of single crystal sputtering: a molecular dynamics study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 58, 429-437	1.2	20
93	Mass spectrometric analysis of rubber vulcanizates by laser desorption/laser ionization. <i>Analytical Chemistry</i> , 1992 , 64, 2797-2803	7.8	20
92	Characterization of fullerenes by laser-based mass spectrometry. <i>Vacuum</i> , 1992 , 43, 381-385	3.7	20
91	Electronic excitation of Ti atoms sputtered by energetic Ar ⁺ and He ⁺ from clean and monolayer oxygen covered surfaces. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983 , 218, 771-776		20
90	Abundance and depth of origin of neutral and ionic clusters sputtered from a liquid gallium-indium eutectic alloy. <i>Physical Review Letters</i> , 1994 , 73, 1719-1722	7.4	19
89	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
88	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
87	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILIP. Two types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 221, 109-126	5.5	18
86	Engineered defects for investigation of laser-induced damage of fused silica at 355 nm 2002 ,		18

85	Electron-stimulated desorption of neutrals from methanol-dosed Al(111) - velocity distributions and adsorbate decomposition determined by nonresonant laser ionization. <i>Surface Science</i> , 1991 , 241, 73-90	1.8	18
84	Modulation of the primary electron transfer rate in photosynthetic reaction centers by reduction of a secondary acceptor. <i>Biophysical Journal</i> , 1978 , 24, 361-9	2.9	18
83	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
82	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
81	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
80	7.87 eV postionization of peptides containing tryptophan or derivatized with fluorescein. <i>Applied Surface Science</i> , 2006 , 252, 6723-6726	6.7	17
79	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
78	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
77	Kinetic energy distributions of sputtered indium atoms and clusters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994 , 94, 197-202	1.2	16
76	A second harmonic generation study of the iron electrode surface using a picosecond laser. <i>Surface Science</i> , 1986 , 176, 377-396	1.8	16
75	Velocity distribution of sputtered U atoms as determined by laser induced fluorescence spectroscopy. <i>Nuclear Instruments & Methods</i> , 1981 , 182-183, 167-178		16
74	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
73	Water Oxidation Catalysis via Size-Selected Iridium Clusters. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9965-9972	3.8	14
72	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
71	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
70	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
69	Atomic Layer Deposition and Superconducting Properties of NbSi Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9477-9485	3.8	14
68	Multi-element isotopic analysis of single presolar SiC grains. <i>New Astronomy Reviews</i> , 2006 , 50, 587-590	7.9	14

67	Etching of hexagonal SiC surfaces in chlorine-containing gas media at ambient pressure. <i>Surface Science</i> , 2006 , 600, 2242-2251	1.8	14
66	Pulsed laser ablation of cement and concrete. <i>Journal of Laser Applications</i> , 1999 , 11, 284-287	2.1	14
65	Sputtering of Group-IIIa elements. Properties of the metal cluster formation mechanism. <i>Surface Science</i> , 1995 , 322, 361-372	1.8	14
64	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
63	High-resolution secondary ion mass spectrometry depth profiling of nanolayers. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 2224-30	2.2	13
62	Heteroepitaxy of group IV-VI nitrides by atomic layer deposition. <i>Applied Physics Letters</i> , 2013 , 103, 211602	1.3	13
61	(Invited) Atomic Layer Deposition of Superconductors. <i>ECS Transactions</i> , 2011 , 41, 237-245	1	13
60	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
59	Water Oxidation by Size-Selected Co Clusters Supported on Fe O. <i>ChemSusChem</i> , 2016 , 9, 3005-3011	8.3	12
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