

Michael J Pellin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6295487/publications.pdf>

Version: 2024-02-01

214
papers

11,159
citations

25034

57
h-index

36028

97
g-index

222
all docs

222
docs citations

222
times ranked

12575
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO Nanotube Based Dye-Sensitized Solar Cells. Nano Letters, 2007, 7, 2183-2187.	9.1	730
2	Subnanometre platinum clusters as highly active and selective catalysts for the oxidative dehydrogenation of propane. Nature Materials, 2009, 8, 213-216.	27.5	725
3	Triplet states of fullerenes C60 and C70. Electron paramagnetic resonance spectra, photophysics, and electronic structures. Journal of the American Chemical Society, 1991, 113, 2774-2776.	13.7	312
4	Electron Transport in Dye-Sensitized Solar Cells Based on ZnO Nanotubes: Evidence for Highly Efficient Charge Collection and Exceptionally Rapid Dynamics. Journal of Physical Chemistry A, 2009, 113, 4015-4021.	2.5	255
5	New Architectures for Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2008, 14, 4458-4467.	3.3	253
6	Selective Propene Epoxidation on Immobilized Au ₁₀ Clusters: The Effect of Hydrogen and Water on Activity and Selectivity. Angewandte Chemie - International Edition, 2009, 48, 1467-1471.	13.8	246
7	Atomic Layer Deposition of a Submonolayer Catalyst for the Enhanced Photoelectrochemical Performance of Water Oxidation with Hematite. ACS Nano, 2013, 7, 2396-2405.	14.6	243
8	High-yield synthesis, separation, and mass-spectrometric characterization of fullerenes C60 to C266. Journal of the American Chemical Society, 1991, 113, 7499-7503.	13.7	192
9	Isotopic Compositions of Strontium, Zirconium, Molybdenum, and Barium in Single Presolar SiC Grains and Asymptotic Giant Branch Stars. Astrophysical Journal, 2003, 593, 486-508.	4.5	182
10	Seeding Atomic Layer Deposition of High- <i>k</i> Dielectrics on Epitaxial Graphene with Organic Self-Assembled Monolayers. ACS Nano, 2011, 5, 5223-5232.	14.6	167
11	Integrated Ultramicroelectrode-Nanopipet Probe for Concurrent Scanning Electrochemical Microscopy and Scanning Ion Conductance Microscopy. Analytical Chemistry, 2010, 82, 1270-1276.	6.5	157
12	Atomic layer deposition of palladium films on Al ₂ O ₃ surfaces. Thin Solid Films, 2006, 515, 1664-1673.	1.8	153
13	Atomic layer deposition of tin oxide films using tetrakis(dimethylamino) tin. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 244-252.	2.1	153
14	Metal-Organic Framework Thin Films as Platforms for Atomic Layer Deposition of Cobalt Ions To Enable Electrocatalytic Water Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 28223-28230.	8.0	145
15	Solvent-assisted linker exchange (SALE) and post-assembly metallation in porphyrinic metal-organic framework materials. Chemical Science, 2013, 4, 1509.	7.4	142
16	Aerogel Templated ZnO Dye-Sensitized Solar Cells. Advanced Materials, 2008, 20, 1560-1564.	21.0	138
17	Size-Dependent Subnanometer Pd Cluster (Pd ₄ , Pd ₆ , and Pd ₁₇) Water Oxidation Electrocatalysis. ACS Nano, 2013, 7, 5808-5817.	14.6	137
18	s-Process Zirconium in Presolar Silicon Carbide Grains. Science, 1997, 277, 1281-1284.	12.6	133

#	ARTICLE	IF	CITATIONS
19	Radial Electron Collection in Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2008, 8, 2862-2866.	9.1	130
20	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.	1.5	123
21	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.	3.1	122
22	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.	6.7	119
23	Atomic Layer Deposition of Fe ₂ O ₃ Using Ferrocene and Ozone. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4333-4339.	3.1	118
24	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.	4.4	115
25	Molybdenum Isotopic Composition of Individual Presolar Silicon Carbide Grains from the Murchison Meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1093-1104.	3.9	114
26	Dye-Sensitized Solar Cells: Driving-Force Effects on Electron Recombination Dynamics with Cobalt-Based Shuttles. <i>Langmuir</i> , 2010, 26, 9082-9087.	3.5	108
27	Effect of Atomic Layer Deposition Coatings on the Surface Structure of Anodic Aluminum Oxide Membranes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14059-14063.	2.6	102
28	Atomic Layer Deposition of Indium Tin Oxide Thin Films Using Nonhalogenated Precursors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1938-1945.	3.1	101
29	Mesoporous catalytic membranes: Synthetic control of pore size and wall composition. <i>Catalysis Letters</i> , 2005, 102, 127-130.	2.6	94
30	Primary photochemistry of the reaction center of photosystem I. <i>FEBS Letters</i> , 1979, 100, 1-4.	2.8	93
31	Conformal ZnO coatings on high surface area silica gel using atomic layer deposition. <i>Thin Solid Films</i> , 2008, 516, 6158-6166.	1.8	92
32	Oxidative dehydrogenation of cyclohexane over alumina-supported vanadium oxide nanoliths. <i>Journal of Catalysis</i> , 2010, 269, 421-431.	6.2	92
33	Structural, optical, and electronic stability of copper sulfide thin films grown by atomic layer deposition. <i>Energy and Environmental Science</i> , 2013, 6, 1868.	30.8	91
34	Two-Laser Mass Spectrometry of Thiolate, Disulfide, and Sulfide Self-Assembled Monolayers. <i>Langmuir</i> , 1998, 14, 1664-1673.	3.5	89
35	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.	3.1	88
36	Atomic Layer Deposition for the Conformal Coating of Nanoporous Materials. <i>Journal of Nanomaterials</i> , 2006, 2006, 1-5.	2.7	82

#	ARTICLE	IF	CITATIONS
37	Extinct Technetium in Silicon Carbide Stardust Grains: Implications for Stellar Nucleosynthesis. <i>Science</i> , 2004, 303, 649-652.	12.6	77
38	Atomic layer deposition of Cu ₂ S for future application in photovoltaics. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	77
39	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.	3.1	76
40	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, 6185-6196.	14.6	76
41	Analyzing individual presolar grains with CHARISMA. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3215-3225.	3.9	75
42	Atomic Layer Deposition of the Quaternary Chalcogenide Cu ₂ ZnSnS ₄ . <i>Chemistry of Materials</i> , 2012, 24, 3188-3196.	6.7	75
43	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.	17.4	75
44	Yields and kinetic energy distributions of sputtered neutral copper clusters. <i>Surface Science</i> , 1991, 259, 275-287.	1.9	74
45	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3201-3214.	3.9	73
46	Reactivity of supported platinum nanoclusters studied by in situ GISAXS: clusters stability under hydrogen. <i>Topics in Catalysis</i> , 2006, 39, 145-149.	2.8	73
47	New findings on the sputtering of neutral metal clusters. <i>Surface Science</i> , 1993, 298, 161-172.	1.9	71
48	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.	4.5	70
49	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.	2.8	70
50	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.	3.1	69
51	CHILL – 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.	1.5	68
52	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FOR <i>i>s</i>-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i>, 2014, 786, 66.</i>	4.5	67
53	Hematite-based Photo-oxidation of Water Using Transparent Distributed Current Collectors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 360-367.	8.0	66
54	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. <i>Astrophysical Journal</i> , 2015, 803, 12.	4.5	65

#	ARTICLE	IF	CITATIONS
55	Fullerenes and giant fullerenes: Synthesis, separation, and mass spectrometric characterization. Carbon, 1992, 30, 1167-1182.	10.3	63
56	Atomic Layer Deposition of Aluminum Oxide in Mesoporous Silica Gel. Journal of Physical Chemistry C, 2010, 114, 17286-17292.	3.1	63
57	Atom probe analyses of nanodiamonds from Allende. Meteoritics and Planetary Science, 2014, 49, 453-467.	1.6	62
58	Mapping XANES spectra on structural descriptors of copper oxide clusters using supervised machine learning. Journal of Chemical Physics, 2019, 151, 164201.	3.0	60
59	Real-Time Observation of Atomic Layer Deposition Inhibition: Metal Oxide Growth on Self-Assembled Alkanethiols. ACS Applied Materials & Interfaces, 2014, 6, 11891-11898.	8.0	59
60	Nanoporous materials for biomedical devices. Jom, 2008, 60, 26-32.	1.9	58
61	Tuning the Composition and Nanostructure of Pt/Ir Films via Anodized Aluminum Oxide Templated Atomic Layer Deposition. Advanced Functional Materials, 2010, 20, 3099-3105.	14.9	58
62	Atomic Layer Deposition of MnS: Phase Control and Electrochemical Applications. ACS Applied Materials & Interfaces, 2016, 8, 2774-2780.	8.0	57
63	Kinetic energy distributions of sputtered neutral aluminum clusters: Al-A16. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 329-336.	1.4	56
64	Nucleation and Growth of Noble Metals on Oxide Surfaces Using Atomic Layer Deposition. ECS Transactions, 2006, 3, 271-278.	0.5	55
65	Low-Temperature Atomic Layer Deposition of CuSb ₂ for Thin-Film Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 4667-4673.	8.0	52
66	Sputtering Products of Sodium Sulfate: Implications for Io's Surface and for Sodium-Bearing Molecules in the Io Torus. Icarus, 1997, 128, 386-397.	2.5	51
67	Laser-Driven Acoustic Desorption of Organic Molecules from Back-Irradiated Solid Foils. Analytical Chemistry, 2007, 79, 8232-8241.	6.5	51
68	Ion Exchange in Ultrathin Films of Cu ₂ S and ZnS under Atomic Layer Deposition Conditions. Chemistry of Materials, 2011, 23, 4411-4413.	6.7	49
69	Distance-Engineered Plasmon-Enhanced Light Harvesting in CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2013, 4, 3527-3533.	4.6	48
70	Resonance ionization mass spectrometry for precise measurements of isotope ratios. International Journal of Mass Spectrometry, 2009, 288, 36-43.	1.5	47
71	Bimetallic AgPt Nanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. Angewandte Chemie - International Edition, 2018, 57, 1209-1213.	13.8	47
72	One Electron Changes Everything. A Multispecies Copper Redox Shuttle for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 3731-3740.	3.1	45

#	ARTICLE	IF	CITATIONS
73	Projection Photolithography Utilizing a Schwarzschild Microscope and Self-Assembled Alkanethiol Monolayers as Simple Photoresists. Langmuir, 1996, 12, 2121-2124.	3.5	44
74	Atomic Layer Deposition of Uniform Metal Coatings on Highly Porous Aerogel Substrates. Chemistry of Materials, 2006, 18, 6106-6108.	6.7	44
75	Development of ultrananocrystalline diamond (UNCD) coatings for multipurpose mechanical pump seals. Wear, 2011, 270, 325-331.	3.1	41
76	Laser fluorescence spectroscopy of sputtered uranium atoms. Nuclear Instruments & Methods, 1980, 170, 295-302.	1.2	40
77	Velocity distribution of sputtered Zr atoms as determined by laser induced fluorescence spectroscopy. Surface Science, 1981, 110, 151-178.	1.9	40
78	THE ¹³ C-POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. Astrophysical Journal, 2014, 788, 163.	4.5	40
79	New Constraints on the Abundance of ⁶⁰ Fe in the Early Solar System. Astrophysical Journal Letters, 2018, 857, L15.	8.3	40
80	First easily reproduced solution-phase synthesis and confirmation of superconductivity in the fullerene KxC60 (Tc = 18.0 +/- 0.1 K). Inorganic Chemistry, 1991, 30, 2838-2839.	4.0	39
81	Endoexcimer Laser Intraocular Ablative Photodecomposition. American Journal of Ophthalmology, 1985, 99, 483-484.	3.3	38
82	Laser-based secondary neutral mass spectroscopy: Useful yield and sensitivity. Nuclear Instruments & Methods in Physics Research B, 1987, 27, 119-129.	1.4	38
83	Velocity distributions and photodissociation of neutral C60 and C70 clusters. Journal of Applied Physics, 1991, 70, 6647-6652.	2.5	38
84	Atomic layer deposition of TiO2 thin films on nanoporous alumina templates: Medical applications. Jom, 2009, 61, 12-16.	1.9	38
85	Low temperature atomic layer deposition of highly photoactive hematite using iron(III) chloride and water. Journal of Materials Chemistry A, 2013, 1, 11607.	10.3	38
86	Catalytic nanoliths. Chemical Engineering Science, 2009, 64, 560-567.	3.8	37
87	Interfaces and Composition Profiles in Metal-Sulfide Nanolayers Synthesized by Atomic Layer Deposition. Chemistry of Materials, 2013, 25, 313-319.	6.7	37
88	Templating Sub-10 nm Atomic Layer Deposited Oxide Nanostructures on Graphene via One-Dimensional Organic Self-Assembled Monolayers. Nano Letters, 2013, 13, 5763-5770.	9.1	37
89	Neutral copper cluster sputtering yields: Ne+ Ar+ and Xe+ bombardment. Nuclear Instruments & Methods in Physics Research B, 1994, 90, 518-522.	1.4	35
90	Atomic layer deposition-based functionalization of materials for medical and environmental health applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2033-2064.	3.4	35

#	ARTICLE	IF	CITATIONS
91	Atomic Layer Deposition of Amorphous Niobium Carbide-Based Thin Film Superconductors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25063-25071.	3.1	35
92	Analysis of Nb ₃ Sn surface layers for superconducting radio frequency cavity applications. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	35
93	In vitro duplication of the primary light-induced charge separation in purple photosynthetic bacteria. <i>Nature</i> , 1979, 278, 54-55.	27.8	34
94	Conductive Atomic Force Microscope Nanopatterning of Epitaxial Graphene on SiC(0001) in Ambient Conditions. <i>Advanced Materials</i> , 2011, 23, 2181-2184.	21.0	34
95	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, 806-814.	3.5	34
96	Atomic layer deposition of nanoporous biomaterials. <i>Materials Today</i> , 2010, 13, 60-64.	14.2	33
97	Potassic, high-silica Hadean crust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6353-6356.	7.1	33
98	Surface Analysis by SNMS: Femtosecond Laser Postionization of Sputtered and Laser Desorbed Atoms. <i>Surface and Interface Analysis</i> , 1996, 24, 363-370.	1.8	31
99	Strontium and barium isotopes in presolar silicon carbide grains measured with CHIL—two types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 109-126.	3.9	31
100	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.	13.7	30
101	Detection of In Situ Derivatized Peptides in Microbial Biofilms by Laser Desorption 7.87 eV Postionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 508-514.	6.5	30
102	X-ray absorption near edge structure in solid Kr and KrF ₂ . <i>Solid State Communications</i> , 1983, 46, 803-806.	1.9	28
103	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, 12290-12294.	8.0	28
104	Surface Mass Spectrometry of Biotinylated Self-Assembled Monolayers. <i>Analytical Chemistry</i> , 1997, 69, 4331-4338.	6.5	27
105	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.	1.4	27
106	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 87-108.	3.9	27
107	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.	4.5	27
108	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.	1.4	26

#	ARTICLE	IF	CITATIONS
109	Imaging of Atomic Layer Deposited (ALD) Tungsten Monolayers on $\text{TiO}_2(110)$ by X-ray Standing Wave Fourier Inversion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12616-12620.	2.6	26
110	Inhibiting Metal Oxide Atomic Layer Deposition: Beyond Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33429-33436.	8.0	26
111	A new time-of-flight instrument for quantitative surface analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 219-220, 473-479.	1.4	25
112	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.	8.3	25
113	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.	1.6	24
114	Vacuum Ultraviolet Postionization of Aromatic Groups Covalently Bound to Peptides. <i>Analytical Chemistry</i> , 2006, 78, 5876-5883.	6.5	24
115	Molecular analysis by ionization of laser-desorbed neutral species. <i>Applied Optics</i> , 1993, 32, 857.	2.1	23
116	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.	1.4	23
117	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. <i>Astrophysical Journal</i> , 2019, 881, 28.	4.5	23
118	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.	2.7	22
119	Oxygen underlayer formation on titanium by e^- static mode laser fluorescence and auger spectroscopy. <i>Surface Science</i> , 1985, 151, 477-502.	1.9	22
120	Characterization of fullerenes by laser-based mass spectrometry. <i>Vacuum</i> , 1992, 43, 381-385.	3.5	22
121	Engineered defects for investigation of laser-induced damage of fused silica at 355 nm. , 2002, , .		22
122	Synthesis of nanoporous activated iridium oxide films by anodized aluminum oxide templated atomic layer deposition. <i>Electrochemistry Communications</i> , 2010, 12, 1543-1546.	4.7	22
123	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.	1.4	21
124	Estimation of useful yield in surface analysis using single photon ionisation. <i>Applied Surface Science</i> , 2003, 203-204, 244-247.	6.1	21
125	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.	3.1	21
126	Oxidative Dehydrogenation of Cyclohexane by Cu vs Pd Clusters: Selectivity Control by Specific Cluster Dynamics. <i>ChemCatChem</i> , 2020, 12, 1307-1315.	3.7	21

#	ARTICLE	IF	CITATIONS
127	Electronic excitation of Ti atoms sputtered by energetic Ar ⁺ and He ⁺ from clean and monolayer oxygen covered surfaces. Nuclear Instruments & Methods in Physics Research, 1983, 218, 771-776.	0.9	20
128	Electron-stimulated desorption of neutrals from methanol-dosed Al(111) - velocity distributions and adsorbate decomposition determined by nonresonant laser ionization. Surface Science, 1991, 241, 73-90.	1.9	20
129	Mass spectrometric analysis of rubber vulcanizates by laser desorption/laser ionization. Analytical Chemistry, 1992, 64, 2797-2803.	6.5	20
130	Abundance and Depth of Origin of Neutral and Ionic Clusters Sputtered from a Liquid Gallium-Indium Eutectic Alloy. Physical Review Letters, 1994, 73, 1719-1722.	7.8	20
131	Pulsed laser ablation of cement and concrete. Journal of Laser Applications, 1999, 11, 284-287.	1.7	20
132	High aspect ratio nanoneedle probes with an integrated electrode at the tip apex. Review of Scientific Instruments, 2012, 83, 113704.	1.3	20
133	Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects. European Journal of Inorganic Chemistry, 2018, 2018, 16-22.	2.0	20
134	Water Oxidation Catalysis via Size-Selected Iridium Clusters. Journal of Physical Chemistry C, 2018, 122, 9965-9972.	3.1	20
135	Porphyrins as Templates for Site-Selective Atomic Layer Deposition: Vapor Metalation and in Situ Monitoring of Island Growth. ACS Applied Materials & Interfaces, 2016, 8, 19853-19859.	8.0	19
136	Dynamic Interplay between Copper Tetramers and Iron Oxide Boosting CO ₂ Conversion to Methanol and Hydrocarbons under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2019, 7, 14435-14442.	6.7	19
137	Modulation of the Primary Electron Transfer Rate in Photosynthetic Reaction Centers by Reduction of a Secondary Acceptor. Biophysical Journal, 1978, 24, 361-367.	0.5	18
138	A second harmonic generation study of the iron electrode surface using a picosecond laser. Surface Science, 1986, 176, 377-396.	1.9	18
139	Kinetic energy distributions of sputtered indium atoms and clusters. Nuclear Instruments & Methods in Physics Research B, 1994, 94, 197-202.	1.4	18
140	Derivatization of Surface-Bound Peptides for Mass Spectrometric Detection via Threshold Single Photon Ionization. Analytical Chemistry, 2004, 76, 4267-4270.	6.5	17
141	Multi-element isotopic analysis of single presolar SiC grains. New Astronomy Reviews, 2006, 50, 587-590.	12.8	17
142	7.87eV postionization of peptides containing tryptophan or derivatized with fluorescein. Applied Surface Science, 2006, 252, 6723-6726.	6.1	17
143	Etching of hexagonal SiC surfaces in chlorine-containing gas media at ambient pressure. Surface Science, 2006, 600, 2242-2251.	1.9	17
144	Atomic Layer Deposition and Superconducting Properties of NbSi Films. Journal of Physical Chemistry C, 2011, 115, 9477-9485.	3.1	17

#	ARTICLE	IF	CITATIONS
145	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, 8646-8650.	8.0	17
146	Velocity distribution of sputtered U atoms as determined by laser induced fluorescence spectroscopy. <i>Nuclear Instruments & Methods</i> , 1981, 182-183, 167-178.	1.2	16
147	In situ measurement of osmium concentrations in iron meteorites by resonance ionization of sputtered atoms. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 875-881.	3.9	16
148	(Invited) Atomic Layer Deposition of Superconductors. <i>ECS Transactions</i> , 2011, 41, 237-245.	0.5	16
149	Surface impedance of superconductors with magnetic impurities. <i>Physical Review B</i> , 2012, 86, .	3.2	16
150	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.	4.1	16
151	Structural reversibility of Cu doped NU-1000 MOFs under hydrogenation conditions. <i>Journal of Chemical Physics</i> , 2020, 152, 084703.	3.0	16
152	Sputtering of Group-IIIa elements. Properties of the metal cluster formation mechanism. <i>Surface Science</i> , 1995, 322, 361-372.	1.9	15
153	Heteroepitaxy of group IV-VI nitrides by atomic layer deposition. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
154	Dynamics of Back Electron Transfer in Dye-Sensitized Solar Cells Featuring 4- <i>tert</i> -Butyl-Pyridine and Atomic-Layer-Deposited Alumina as Surface Modifiers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7162-7169.	2.6	15
155	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. <i>Astrophysical Journal</i> , 2018, 855, 144.	4.5	15
156	High-resolution secondary ion mass spectrometry depth profiling of nanolayers. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2224-2230.	1.5	14
157	Water Oxidation by Size-Selected Co ₂₇ Clusters Supported on Fe ₂ O ₃ . <i>ChemSusChem</i> , 2016, 9, 3005-3011.	6.8	14
158	Determining the Conduction Band-Edge Potential of Solar-Cell-Relevant Nb ₂ O ₅ Fabricated by Atomic Layer Deposition. <i>Langmuir</i> , 2017, 33, 9298-9306.	3.5	14
159	Coating of SiC surface by thin carbon films using the carbide-derived carbon process. <i>Thin Solid Films</i> , 2004, 469-470, 135-141.	1.8	13
160	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.	0.4	13
161	Efficiency of concrete removal with a pulsed Nd:YAG laser. <i>Journal of Laser Applications</i> , 2000, 12, 200-204.	1.7	12
162	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.	2.7	12

#	ARTICLE	IF	CITATIONS
163	Selectivity, specificity and sensitivity in the photoionization of sputtered species. Nuclear Instruments & Methods in Physics Research B, 1991, 58, 505-511.	1.4	11
164	Energy and yield distributions of calcium atoms and clusters undergoing 4 keV Ar ⁺ -ion bombardment. Surface Science, 1998, 398, 211-220.	1.9	11
165	A new horizon in secondary neutral mass spectrometry: post-ionization using a VUV free electron laser. Applied Surface Science, 2004, 231-232, 962-966.	6.1	11
166	Efficient multiple beam ion optics for quantitative surface analysis: from simulations to a fully operational instrument. Physics Procedia, 2008, 1, 379-389.	1.2	11
167	Tunneling Study of SRF Cavity-Grade Niobium. IEEE Transactions on Applied Superconductivity, 2009, 19, 1404-1408.	1.7	11
168	Temperature-Dependent Evolution of the Oxidation States of Cobalt and Platinum in Co _x Pt _{1-x} Clusters under H ₂ and CO + H ₂ Atmospheres. Journal of Physical Chemistry C, 2016, 120, 21496-21504.	3.1	11
169	Iron and nickel isotope compositions of presolar silicon carbide grains from supernovae. Geochimica Et Cosmochimica Acta, 2018, 221, 127-144.	3.9	11
170	Yields of sputtered metal clusters: the influence of surface structure. Surface Science, 1994, 304, L439-L444.	1.9	10
171	Computer simulation of time-of-flight mass spectrometers: calculations of mass spectra and spatial distributions of ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 519, 345-352.	1.6	10
172	A virtual reality instrument: near-future perspective of computer simulations of ion optics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 519, 363-372.	1.6	10
173	Formation of neutral clusters during sputtering of gold. Surface Science, 2009, 603, 819-825.	1.9	10
174	Calculating time-of-flight spectra of post-ionized sputtered neutrals. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 1051-1057.	1.4	9
175	Investigation of radiation enhanced diffusion of magnesium in substrates flown on the NASA genesis mission. Applied Surface Science, 2008, 255, 1455-1457.	6.1	9
176	Tunneling spectroscopy of superconducting MoN and NbTiN grown by atomic layer deposition. Applied Physics Letters, 2014, 104, .	3.3	9
177	Investigation of High-Energy Ion-Irradiated MA957 Using Synchrotron Radiation under In-Situ Tension. Materials, 2016, 9, 15.	2.9	9
178	Sputtering of clusters from nickel-aluminium. Applied Surface Science, 2006, 252, 6426-6428.	6.1	8
179	Thermal conductivity of Er ₃ :Y ₂ O ₃ films grown by atomic layer deposition. Applied Physics Letters, 2013, 103, 193109.	3.3	8
180	Characterization of high energy Xe ion irradiation effects in single crystal molybdenum with depth-resolved synchrotron microbeam diffraction. Journal of Nuclear Materials, 2016, 471, 272-279.	2.7	8

#	ARTICLE	IF	CITATIONS
181	Nanoassemblies of ultrasmall clusters with remarkable activity in carbon dioxide conversion into C1 fuels. <i>Nanoscale</i> , 2019, 11, 4683-4687.	5.6	8
182	RIMS analysis of ion induced fragmentation of molecules sputtered from an enriched U3O8 matrix. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 407-412.	1.5	7
183	Resonance-enhanced infrared four-wave mixing by infrared-active molecules. <i>Applied Physics Letters</i> , 1976, 29, 304-307.	3.3	6
184	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 ₂ environment. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 144002.	1.8	6
185	Effects of oxygen dosing on Ca cluster yields and energy distributions. <i>Surface Science</i> , 1999, 432, 199-210.	1.9	5
186	Sputtering of clusters from copper-gold alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2757-2760.	1.4	5
187	Point contact tunneling spectroscopy apparatus for large scale mapping of surface superconducting properties. <i>Review of Scientific Instruments</i> , 2015, 86, 095111.	1.3	5
188	Heavy ion linear accelerator for radiation damage studies of materials. <i>Review of Scientific Instruments</i> , 2017, 88, 033302.	1.3	5
189	Spectrometric Characterization of Purified C ₆₀ and C ₇₀ . <i>Materials Research Society Symposia Proceedings</i> , 1990, 206, 679.	0.1	4
190	Single photon ionisation of self assembled monolayers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 190, 203-206.	1.4	4
191	High sensitivity sputter neutral mass spectrometry – Sputtering of neutral mixed clusters from gold-aluminum alloys. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 317, 115-120.	1.4	4
192	Laser Ablation of Sub-10 nm Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9552-9559.	3.1	4
193	Sensitive, low damage surface analysis using resonance ionization of sputtered atoms. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 18, 445-451.	1.4	3
194	Trace isotopic analysis of micron-sized grains: Mo and Zr analysis of stardust (SiC and graphite) Tj ETQq0 0 0 rgBT /Overlock 10 T		3
195	Spatially Controlled Atomic Layer Deposition in Porous Membranes. <i>ECS Transactions</i> , 2007, 11, 177-184.	0.5	3
196	Sputtering of neutral clusters from silver-gold alloys. <i>Applied Surface Science</i> , 2009, 256, 991-994.	6.1	3
197	Laser-induced desorption of organic molecules from front- and back-irradiated metal foils. , 2009, , .		3
198	Engendering Long-Term Air and Light Stability of a TiO ₂ -Supported Porphyrinic Dye via Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34863-34869.	8.0	3

#	ARTICLE	IF	CITATIONS
199	Bimetallic Ag-Pt Subnanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 1223-1227.	2.0	3
200	Direct detection of a metal desorption channel: electron-stimulated desorption of aluminum from methanol-dosed Al(111). <i>Surface Science</i> , 1993, 282, 97-112.	1.9	2
201	Transparent Conducting Oxides at High Aspect Ratios by ALD. <i>ECS Transactions</i> , 2006, 3, 243-247.	0.5	2
202	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, 373-377.	1.0	2
203	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.	2.7	2
204	FULLERENES AND GIANT FULLERENES: SYNTHESIS, SEPARATION, AND MASS SPECTROMETRIC CHARACTERIZATION. , 1993, , 29-44.		2
205	Sputtering of tin and gallium-tin clusters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 100, 361-365.	1.4	1
206	Performance and Characterization of ALD Vanadium Oxide Catalytic Nanoliths. <i>ECS Transactions</i> , 2009, 25, 49-55.	0.5	1
207	Atom-Probe Tomography of Meteoritic Nanodiamonds.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1676-1677.	0.4	1
208	Isotope shifts of Zn neutral atoms measured by two-photon Doppler-free laser-induced fluorescence spectroscopy. <i>Vacuum</i> , 1990, 41, 204-206.	3.5	0
209	Using a TOF mass spectrometer for studies of laser interaction with 3-nm diameter gold nanoparticles embedded in silica. , 2003, 4932, 334.		0
210	Anodic Aluminum Oxide Templated Channel Electrodes via Atomic Layer Deposition. <i>ECS Transactions</i> , 2007, 6, 389-394.	0.5	0
211	Tuning the Composition and Nanostructure of Pt/Ir Films via Anodized Aluminum Oxide Templated Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2010, 20, n/a-n/a.	14.9	0
212	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, .	1.2	0
213	Cover Feature: Reversing Size-Dependent Trends in the Oxidation of Copper Clusters through Support Effects (<i>Eur. J. Inorg. Chem.</i> 1/2018). <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3-3.	2.0	0
214	Laser Fluorescence Spectroscopy of Zinc Neutrals Originating from Laser-Irradiated and Ion-Bombarded Zinc Sulfide and Zinc Surfaces. , 1988, , 227-236.		0