

# Mark Biesinger

## List of Publications by Year in descending order

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52  
papers

19,169  
citations

212478

28  
h-index

198040

52  
g-index

52  
all docs

52  
docs citations

52  
times ranked

30319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Location of cobalt impurities in the surface oxide of stainless steel 316L and metal release in synthetic biological fluids. <i>Materials and Design</i> , 2022, 215, 110524.	3.3	3
2	Zirconium-organic framework as a novel adsorbent for arsenate remediation from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2022, 356, 118957.	2.3	15
3	Assessing the robustness of adventitious carbon for charge referencing (correction) purposes in XPS analysis: Insights from a multi-user facility data review. <i>Applied Surface Science</i> , 2022, 597, 153681.	3.1	154
4	The kinetics of copper corrosion in nitric acid. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 348-360.	0.8	10
5	Investigating the Role of Mo and Cr during the Activation and Passivation of Ni-Based Alloys in Acidic Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2021, 168, 021509.	1.3	22
6	Systematic and collaborative approach to problem solving using X-ray photoelectron spectroscopy. <i>Applied Surface Science Advances</i> , 2021, 5, 100112.	2.9	451
7	Synthesis and Reactivity of Cationic Gallium(I) [12]Crown-4 Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 14713-14720.	1.9	5
8	New weldable 316L stainless flux-cored wires with reduced Cr(VI) fume emissions: part 1 health aspects of particle composition and release of metals. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 2319-2337.	1.3	2
9	The contribution of Cr and Mo to the passivation of Ni22Cr and Ni22Cr10Mo alloys in sulfuric acid. <i>Corrosion Science</i> , 2020, 176, 109015.	3.0	39
10	Proliferation of Faulty Materials Data Analysis in the Literature. <i>Microscopy and Microanalysis</i> , 2020, 26, 1-2.	0.2	59
11	Preparation of Amine- and Disulfide-Containing PAMAM-Based Dendrons for the Functionalization of Hydroxylated Surfaces: XPS as Structural Sensor. <i>ChemistrySelect</i> , 2020, 5, 4875-4884.	0.7	20
12	Investigating the transport mechanisms governing the oxidation of Hastelloy BC-1 by in situ ToF-SIMS. <i>Corrosion Science</i> , 2019, 159, 108138.	3.0	17
13	The Gaussian-Lorentzian Sum, Product, and Convolution (Voigt) functions in the context of peak fitting X-ray photoelectron spectroscopy (XPS) narrow scans. <i>Applied Surface Science</i> , 2018, 447, 548-553.	3.1	149
14	Continuous Hydrothermal Decarboxylation of Fatty Acids and Their Derivatives into Liquid Hydrocarbons Using Mo/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Omega</i> , 2018, 3, 7046-7060.	1.6	28
15	Dye rejection membranes prepared from oxidized graphite particles. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1103-1109.	0.6	4
16	Advanced analysis of copper X-ray photoelectron spectra. <i>Surface and Interface Analysis</i> , 2017, 49, 1325-1334.	0.8	1,040
17	Application of quantitative X-ray photoelectron spectroscopy (XPS) imaging: investigation of Ni-Cr-Mo alloys exposed to crevice corrosion solution. <i>Surface and Interface Analysis</i> , 2017, 49, 1345-1350.	0.8	14
18	The influence of chromium and molybdenum on the repassivation of nickel-chromium-molybdenum alloys in saline solutions. <i>Surface and Interface Analysis</i> , 2017, 49, 1359-1365.	0.8	21

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19	The development of statistical $\text{ToF-SIMS}$ applied to minerals recovery by froth flotation. <i>Surface and Interface Analysis</i> , 2017, 49, 1387-1396.	0.8	13
20	Surface Mobility and Nucleation of a Molecular Switch: Tetraaniline on Hematite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26350-26360.	1.5	1
21	Interfacial Charge Transfer between Phenyl-Capped Aniline Tetramer Films and Iron Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29248-29263.	1.5	85
22	Chemical state determination of molecular gallium compounds using XPS. <i>Dalton Transactions</i> , 2016, 45, 7678-7696.	1.6	82
23	An Azide-Functionalized Nitronyl Nitroxide Radical: Synthesis, Characterization and Staudinger-Bertozzi Ligation Reactivity. <i>Synlett</i> , 2016, 27, 304-308.	1.0	1
24	The Influence of Final-State Effects on XPS Spectra from First-Row Transition-Metals. <i>Springer Series in Surface Sciences</i> , 2016, , 217-262.	0.3	1
25	Small gold nanoparticles for interfacial Staudinger-Bertozzi ligation. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 4605-4612.	1.5	16
26	Synthesis of small water-soluble diazine-functionalized gold nanoparticles and their photochemical modification. <i>Canadian Journal of Chemistry</i> , 2015, 93, 98-105.	0.6	2
27	Synthesis and characterization of novel $\text{TiO}_2$ -poly(propylene fumarate) nanocomposites for bone cementation. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5145-5156.	2.9	28
28	Ultrasoother Gold Surfaces Prepared by Chemical Mechanical Polishing for Applications in Nanoscience. <i>Langmuir</i> , 2014, 30, 14171-14178.	1.6	22
29	Versatile strained alkyne modified water-soluble AuNPs for interfacial strain promoted azide-alkyne cycloaddition (I-SPAAC). <i>Journal of Materials Chemistry B</i> , 2014, 2, 1764-1769.	2.9	32
30	Gamma-radiolysis-assisted cobalt oxide nanoparticle formation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1014-1024.	1.3	73
31	The role of the Auger parameter in XPS studies of nickel metal, halides and oxides. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2434.	1.3	297
32	Developing $\text{ToF-SIMS}$ methods for investigating the degradation of plastic debris on beaches. <i>Surface and Interface Analysis</i> , 2011, 43, 443-445.	0.8	15
33	Resolving surface chemical states in XPS analysis of first row transition metals, oxides and hydroxides: Cr, Mn, Fe, Co and Ni. <i>Applied Surface Science</i> , 2011, 257, 2717-2730.	3.1	6,012
34	Resolving surface chemical states in XPS analysis of first row transition metals, oxides and hydroxides: Sc, Ti, V, Cu and Zn. <i>Applied Surface Science</i> , 2010, 257, 887-898.	3.1	2,987
35	First-Cycle Grain Weathering Processes: Compositions and Textures of Sea Glass from Port Allen, Kauai, Hawaii. <i>Journal of Sedimentary Research</i> , 2010, 80, 884-894.	0.8	6
36	Toward a comprehensive understanding of solid-state core-level XPS linewidths: Experimental and theoretical studies on the $\text{Si}$ $2p$ core level. <i>Physical Review B</i> , 2009, 80, .	1.1	63

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37	Plastics and beaches: A degrading relationship. <i>Marine Pollution Bulletin</i> , 2009, 58, 80-84.	2.3	478
38	X-ray photoelectron spectroscopic chemical state quantification of mixed nickel metal, oxide and hydroxide systems. <i>Surface and Interface Analysis</i> , 2009, 41, 324-332.	0.8	1,307
39	Quantitative chemical state XPS analysis of first row transition metals, oxides and hydroxides. <i>Journal of Physics: Conference Series</i> , 2008, 100, 012025.	0.3	71
40	Dependence of Crystal Growth of Gold Nanoparticles on the Capping Behavior of Surfactant at Ambient Conditions. <i>Crystal Growth and Design</i> , 2008, 8, 1713-1719.	1.4	85
41	The role of proximity caps during the annealing of UV-ozone oxidized GaAs. <i>Journal of Applied Physics</i> , 2007, 101, 114321.	1.1	13
42	X-ray photoelectron spectroscopic study of the formation of catalytic gold nanoparticles on ultraviolet-ozone oxidized GaAs(100) substrates. <i>Journal of Applied Physics</i> , 2007, 101, 114322.	1.1	40
43	Structure and growth of oxides on polycrystalline nickel surfaces. <i>Surface and Interface Analysis</i> , 2007, 39, 582-592.	0.8	71
44	Analysis of mineral surface chemistry in flotation separation using imaging XPS. <i>Minerals Engineering</i> , 2007, 20, 152-162.	1.8	85
45	Imaging lipid distributions in model monolayers by ToF-SIMS with selectively deuterated components and principal components analysis. <i>Applied Surface Science</i> , 2006, 252, 6957-6965.	3.1	30
46	New interpretations of XPS spectra of nickel metal and oxides. <i>Surface Science</i> , 2006, 600, 1771-1779.	0.8	1,663
47	Improved statistical methods applied to surface chemistry in minerals flotation. <i>Minerals Engineering</i> , 2006, 19, 790-798.	1.8	34
48	XPS imaging investigations of pitting corrosion mechanisms in Inconel 600. <i>Surface and Interface Analysis</i> , 2005, 37, 478-494.	0.8	16
49	X-ray photoelectron spectroscopy studies of chromium compounds. <i>Surface and Interface Analysis</i> , 2004, 36, 1550-1563.	0.8	419
50	Investigation of multiplet splitting of Fe 2p XPS spectra and bonding in iron compounds. <i>Surface and Interface Analysis</i> , 2004, 36, 1564-1574.	0.8	2,742
51	Principal Component Analysis of TOF-SIMS Images of Organic Monolayers. <i>Analytical Chemistry</i> , 2002, 74, 5711-5716.	3.2	92
52	Interactions of CO <sub>2</sub> and CO at fractional atmosphere pressures with iron and iron oxide surfaces: one possible mechanism for surface contamination?. <i>Surface and Interface Analysis</i> , 2002, 33, 299-305.	0.8	234