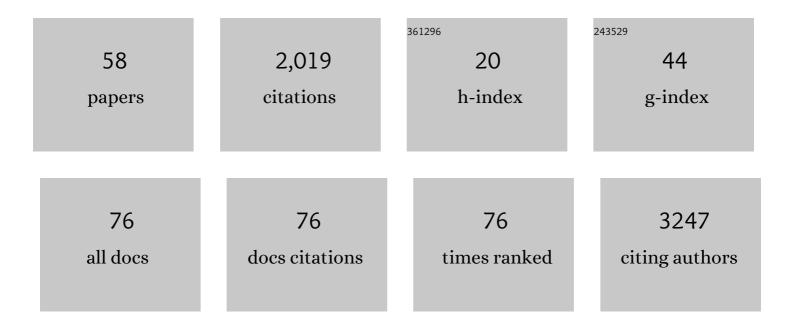
Steven L Bernasek

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physisorption and Chemisorption of Alkanethiols and Alkyl Sulfides on Au(111). Journal of Physical Chemistry B, 1998, 102, 3456-3465.	1.2	418
2	Understanding Oddâ^'Even Effects in Organic Self-Assembled Monolayers. Chemical Reviews, 2007, 107, 1408-1453.	23.0	351
3	Surface Characterization and Modification of Indium Tin Oxide in Ultrahigh Vacuum. Journal of the American Chemical Society, 2000, 122, 1808-1809.	6.6	127
4	Stabilization of Self-Assembled Monolayers of Carboxylic Acids on Native Oxides of Metals. Journal of the American Chemical Society, 1997, 119, 259-262.	6.6	100
5	Enhanced Bonding of Alkanephosphonic Acids to Oxidized Titanium Using Surface-Bound Alkoxyzirconium Complex Interfaces. Langmuir, 1999, 15, 8929-8933.	1.6	96
6	Dynamic Oxygen on Surface: Catalytic Intermediate and Coking Barrier in the Modeled CO ₂ Reforming of CH ₄ on Ni (111). ACS Catalysis, 2016, 6, 4330-4339.	5.5	93
7	Formation, Electronic Structure, and Defects of Ni Substituted Spinel Cobalt Oxide: a DFT+U Study. Journal of Physical Chemistry C, 2016, 120, 14892-14898.	1.5	86
8	Characterization of Self-Assembled Organic Films Using Differential Charging in X-ray Photoelectron Spectroscopy. Langmuir, 2006, 22, 4649-4653.	1.6	56
9	In-situ characterization by Near-Ambient Pressure XPS of the catalytically active phase of Pt/Al2O3 during NO and CO oxidation. Applied Catalysis B: Environmental, 2018, 220, 506-511.	10.8	46
10	Surface Oxidation of Bi ₂ (Te,Se) ₃ Topological Insulators Depends on Cleavage Accuracy. Chemistry of Materials, 2016, 28, 35-39.	3.2	43
11	In-situ studies of oxidation/reduction of copper in Cu-CHA SCR catalysts: Comparison of fresh and SO2-poisoned catalysts. Applied Catalysis B: Environmental, 2020, 269, 118722.	10.8	42
12	Hydrogen-Bonding versus van der Waals Interactions in Self-Assembled Monolayers of Substituted Isophthalic Acids. Langmuir, 2010, 26, 18155-18161.	1.6	40
13	Oxygen Deficiency and Reactivity of Spinel NiCo ₂ O ₄ (001) Surfaces. Journal of Physical Chemistry C, 2017, 121, 3929-3937.	1.5	39
14	Complexity in the Self-Assembly of Bifunctional Molecules on HOPG:Â The Influence of Solvent Functionality on Self-Assembled Structures. Langmuir, 2007, 23, 3513-3522.	1.6	35
15	Structure of the NiFe2O4(001) surface in contact with gaseous O2 and water vapor. Surface Science, 2015, 640, 73-79.	0.8	30
16	Diode laser absorption study of internal energies of CO2produced from catalytic CO oxidation. Journal of Chemical Physics, 1996, 104, 7719-7728.	1.2	29
17	Surface Modification of Indium Tin Oxide by Phenoxytin Complexes. Langmuir, 2001, 17, 948-952.	1.6	24
18	The internal energy of CO2 produced from catalytic oxidation of CO by NO. Journal of Chemical Physics, 1998, 109, 746-752.	1.2	22

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19	Regeneration of sulfur-poisoned Cu-SSZ-13 catalysts: Copper speciation and catalytic performance evaluation. Applied Catalysis B: Environmental, 2021, 299, 120626.	10.8	21
20	Coadsorption of Ethanethiol with Sulfur, Oxygen, and Water on the Fe(100) Surface. Langmuir, 1996, 12, 392-401.	1.6	20
21	Catalytic Intermediates of CO ₂ Hydrogenation on Cu(111) Probed by In Operando Nearâ€Ambient Pressure Technique. Chemistry - A European Journal, 2018, 24, 16097-16103.	1.7	20
22	Differences in oxidation-reduction kinetics and mobility of Cu species in fresh and SO2-poisoned Cu-SSZ-13 catalysts. Applied Catalysis B: Environmental, 2021, 284, 119756.	10.8	20
23	Mechanism and activity of CO oxidation on (001) and (110) surfaces of spinel Co3O4, NiCo2O4 and NiFe2O4: A DFTâ€⁻+â€⁻U study. Surface Science, 2018, 677, 278-283.	0.8	18
24	First-Principles Calculations of Condition-Dependent Cu/Fe Speciation in Sulfur-Poisoned Cu- and Fe-SSZ-13 Catalysts. Journal of Physical Chemistry C, 2021, 125, 4632-4645.	1.5	16
25	Impedance-type measurements using XPS. Applied Surface Science, 2009, 256, 1296-1298.	3.1	14
26	Ligand Metathesis in Surface-Bound Alkoxyzirconium Complexes. 2. Preparation of Alkanecarboxylate Complexes in Ultrahigh Vacuum. Langmuir, 1998, 14, 3720-3722.	1.6	12
27	Low-Energy Collisions of Pyrazine andd6-Benzene Molecular Ions with Self-Assembled Monolayer Surfaces:A The Oddâ^'Even Chain Length Effect. Langmuir, 2001, 17, 8254-8259.	1.6	12
28	The Reaction between Tetrakis(diethylamino)tin and Indium Tin Oxide. Langmuir, 2001, 17, 5696-5702.	1.6	12
29	Interaction of Neopentyl Thiol with Clean and Oxygen-Modified Fe(100) Surfacesâ€. Journal of Physical Chemistry B, 2000, 104, 3320-3326.	1.2	11
30	Useful X-ray Photoelectron Spectroscopy-Based Chemical Tool: Differential Charging Studies of Complex Composite Materials. Chemistry of Materials, 2017, 29, 4162-4166.	3.2	10
31	Probing the Oxidation/Reduction Dynamics of Fresh and P-, Na-, and K-Contaminated Pt/Pd/Al ₂ O ₃ Diesel Oxidation Catalysts by STEM, TPR, and in Situ XANES. Journal of Physical Chemistry C, 2020, 124, 2945-2952.	1.5	10
32	Monolayer Stabilization on Hydroxylated Aluminum Surfaces. Langmuir, 1998, 14, 1367-1370.	1.6	9
33	Reaction of Tetra(tert-Butoxy)Tin or -Zirconium with Hydroxylated Titanium in Ultrahigh Vacuum:Â Contrasting Reactivity with Hydroxylated Aluminum Substrate. Langmuir, 1999, 15, 7092-7096.	1.6	9
34	Probing the Reaction Mechanism in CO ₂ Hydrogenation on Bimetallic Ni/Cu(100) with Near-Ambient Pressure X-Ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2020, 12, 2548-2554.	4.0	9
35	Synthesis of a surface mounted metal–organic framework on gold using a Au–carbene self-assembled monolayer linkage. Materials Chemistry Frontiers, 2019, 3, 636-639.	3.2	8
36	The nature of residues following the ashing of arsenic implanted photoresist. Journal of Materials Research, 1997, 12, 2799-2808.	1.2	7

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37	The Reaction between Tetra-tert-butoxytin and Al(110)â^'OH in Ultrahigh Vacuum:Â Contrasting Behavior vs Its Zirconium Analogue. Langmuir, 1998, 14, 1532-1534.	1.6	7
38	Can We Understand the Molecule in Molecular Electronics?. Angewandte Chemie - International Edition, 2012, 51, 9737-9738.	7.2	7
39	Impact of Biodiesel-Based Phosphorus and Sulfur on Copper Speciation of Cu-SSZ-13 Catalysts: XAFS Scanning during H ₂ -TPR. Journal of Physical Chemistry C, 2022, 126, 3385-3396.	1.5	7
40	Differential charging in X-ray photoelectron spectroscopy for characterizing organic thin films. Journal of Electron Spectroscopy and Related Phenomena, 2010, 176, 18-23.	0.8	5
41	Computational Study of Noble Metal CHA Zeolites: NO Adsorption and Sulfur Resistance. Journal of Physical Chemistry C, 2022, 126, 7022-7035.	1.5	5
42	Transfer of Electron Density and Formation of Dative Bonds in Chemisorption of Pyrrolidine on Si(111)-7 × 7. Journal of Physical Chemistry C, 2008, 112, 15474-15482.	1.5	4
43	Thermally Driven Switch of Binding Configuration of 3-Pyrroline on Si(111)-7 × 7. Journal of Physical Chemistry C, 2011, 115, 2020-2025.	1.5	4
44	The Kinetics and Mechanism of the Selective Oxidation of 20Fe–40Ni–10Mn–30Cr Alloy. Oxidation of Metals, 2015, 83, 71-88.	1.0	4
45	Simple twoâ€axes sample positioning mechanism. Review of Scientific Instruments, 1977, 48, 399-401.	0.6	3
46	Sensitivity analysis of surface structure determination by low energy electron diffraction. Journal of Chemical Physics, 1983, 79, 3581-3589.	1.2	3
47	Epitaxy and Defects in Laser-Irradiated, Single-Crystal Bismuth. Materials Research Society Symposia Proceedings, 1984, 35, 439.	0.1	3
48	Two-Dimensional versus Three-Dimensional Self-Assembly of a Series of 5-Alkoxyisophthalic Acids. Langmuir, 2018, 34, 10739-10747.	1.6	3
49	Polygonal fitting for linearization. Review of Scientific Instruments, 1984, 55, 1510-1511.	0.6	2
50	Insights into sulfur poisoning and regeneration of Cu-SSZ-13 catalysts: in situ Cu and S K-edge XAS studies. Catalysis Science and Technology, 2021, 11, 5619-5632.	2.1	2
51	Epitaxy and defects in laser-irradiated, single-crystal bismuth. Journal of Materials Research, 1988, 3, 1097-1103.	1.2	1
52	Laser-Assisted Etching of Lithium Niobate. Materials Research Society Symposia Proceedings, 1988, 126, 251.	0.1	1
53	A Compact UHV Tandem Quadrupole Mass Spectrometer for Surfaceâ€Induced Dissociation Studies Using Wellâ€Characterized Surfaces. Israel Journal of Chemistry, 1998, 38, 375-383.	1.0	1
54	Systematic Modification of Indium Tin Oxide to Enhance Diode Device Behavior. Materials Research Society Symposia Proceedings, 2005, 871, 1.	0.1	1

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#	Article	IF	CITATIONS
55	Formation of Organic Nanostructures on Semiconductor Surfaces. , 2012, , 277-300.		1
56	Interpretation on Nanoporous Network Structure in Rice Husk Silica Layer: A Graph Model. ACS Omega, 2018, 3, 11544-11549.	1.6	1
57	Studies of Structure and Dynamics in Heterogeneous Reactions. Israel Journal of Chemistry, 1982, 22, 395-400.	1.0	Ο
58	Differential charging analysis of Nb-TiO2 thin films on SiO2 substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 051101.	0.9	0