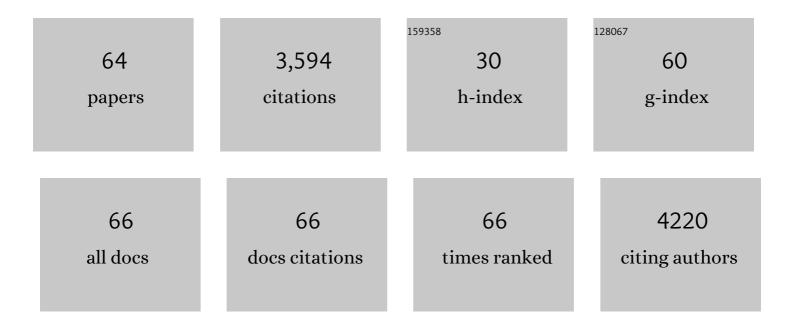
John C Hemminger

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electron Spectroscopy of Aqueous Solution Interfaces Reveals Surface Enhancement of Halides. Science, 2005, 307, 563-566.	6.0	611
2	Getting Specific About Specific Ion Effects. Science, 2008, 319, 1197-1198.	6.0	296
3	Physical Chemistry of Airborne Sea Salt Particles and Their Components. Journal of Physical Chemistry A, 2000, 104, 11463-11477.	1.1	217
4	The nature of water on surfaces of laboratory systems and implications for heterogeneous chemistry in the troposphere. Physical Chemistry Chemical Physics, 2004, 6, 604.	1.3	214
5	Atmosphericâ€Pressure Chemical Vapor Deposition of Iron Pyrite Thin Films. Advanced Energy Materials, 2012, 2, 1124-1135.	10.2	147
6	Photoelectron Angular Distributions from Liquid Water: Effects of Electron Scattering. Physical Review Letters, 2013, 111, 173005.	2.9	132
7	Formation of a Self-Assembled Monolayer by Adsorption of Thiophene on Au(111) and Its Photooxidation. Langmuir, 1996, 12, 6176-6178.	1.6	113
8	Catalytically Activated Palladium@Platinum Nanowires for Accelerated Hydrogen Gas Detection. ACS Nano, 2015, 9, 3215-3225.	7.3	113
9	lon spatial distributions at the liquid–vapor interface of aqueous potassium fluoride solutions. Physical Chemistry Chemical Physics, 2008, 10, 4778.	1.3	103
10	Direct Observation of Substrate Influence on Chemisorption of Methanethiol Adsorbed from the Gas Phase onto the Reconstructed Au(111) Surface. Langmuir, 1997, 13, 2318-2322.	1.6	83
11	Surface segregation of bromine in bromide doped NaCl: Implications for the seasonal variations in Arctic ozone. Geophysical Research Letters, 2000, 27, 1879-1882.	1.5	82
12	Scanning Tunneling Microscopy Characterization of Organoselenium Monolayers on Au(111). Langmuir, 1997, 13, 4788-4790.	1.6	78
13	Spatial Distribution of Nitrate and Nitrite Anions at the Liquid/Vapor Interface of Aqueous Solutions. Journal of the American Chemical Society, 2009, 131, 8354-8355.	6.6	75
14	Does Nitric Acid Dissociate at the Aqueous Solution Surface?. Journal of Physical Chemistry C, 2011, 115, 21183-21190.	1.5	73
15	Photodeposition of Ag or Pt onto TiO ₂ Nanoparticles Decorated on Step Edges of HOPG. ACS Nano, 2011, 5, 6325-6333.	7.3	72
16	CO ₂ Capture in Amineâ€Based Aqueous Solution: Role of the Gas–Solution Interface. Angewandte Chemie - International Edition, 2011, 50, 10178-10181.	7.2	67
17	Preparation of gold thin films by epitaxial growth on mica and the effect of flame annealing. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 3295-3300.	0.9	63
18	Wet Chemical Growth and Thermocatalytic Activity of Cu-Based Nanoparticles Supported on TiO ₂ Nanoparticles/HOPG: In Situ Ambient Pressure XPS Study of the CO ₂ Hydrogenation Reaction. ACS Catalysis, 2019, 9, 6783-6802.	5.5	62

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19	Characterization of the Acetonitrile Aqueous Solution/Vapor Interface by Liquid-Jet X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 29378-29388.	1.5	59
20	Effect of Water on the HNO3Pressure Dependence of the Reaction between Gas-Phase HNO3and NaCl Surfaces. Journal of Physical Chemistry A, 1999, 103, 4777-4781.	1.1	58
21	Ambient Pressure X-ray Photoelectron Spectroscopy and Molecular Dynamics Simulation Studies of Liquid/Vapor Interfaces of Aqueous NaCl, RbCl, and RbBr Solutions. Journal of Physical Chemistry C, 2012, 116, 4545-4555.	1.5	58
22	Orientation and Structure of Acetonitrile in Water at the Liquid–Vapor Interface: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry C, 2016, 120, 17555-17563.	1.5	50
23	Dissociation of Strong Acid Revisited: X-ray Photoelectron Spectroscopy and Molecular Dynamics Simulations of HNO ₃ in Water. Journal of Physical Chemistry B, 2011, 115, 9445-9451.	1.2	46
24	Projection Photolithography Utilizing a Schwarzschild Microscope and Self-Assembled Alkanethiol Monolayers as Simple Photoresistsâ€. Langmuir, 1996, 12, 2121-2124.	1.6	44
25	Dissociation of Sulfuric Acid in Aqueous Solution: Determination of the Photoelectron Spectral Fingerprints of H ₂ SO ₄ , HSO ₄ [–] , and SO ₄ ^{2–} in Water. Journal of Physical Chemistry C, 2013, 117, 8131-8137.	1.5	41
26	Surface Adsorbed Water on NaCl and Its Effect on Nitric Acid Reactivity with NaCl Powders. Journal of Physical Chemistry B, 2004, 108, 14102-14108.	1.2	39
27	Fluorescence Excitation and Photodecomposition of the First Excited Singlet Cyclobutanone (1A2): A Study of Predissociation of and Collisional Energy Transfer from the Vibronically Selected Species. Journal of Chemical Physics, 1972, 56, 5284-5295.	1.2	36
28	Specific cation effects at aqueous solutionâ^'vapor interfaces: Surfactant-like behavior of Li ⁺ revealed by experiments and simulations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13363-13368.	3.3	34
29	An empirical electron spectrometer transmission function for applications in quantitative XPS. Surface and Interface Analysis, 1990, 15, 323-327.	0.8	31
30	Chemical Vapor Deposition of Silica Micro- and Nanoribbons Using Step-Edge Localized Water. Journal of Physical Chemistry B, 2003, 107, 5393-5397.	1.2	29
31	Characterization of HOCl Using Atmospheric Pressure Ionization Mass Spectrometry. Journal of Physical Chemistry A, 1999, 103, 8231-8238.	1.1	28
32	Experimental determination of thermal and nonthermal mechanisms for laser desorption from thin metal films. Journal of Chemical Physics, 1990, 93, 4719-4723.	1.2	26
33	Liquid-Jet X-ray Photoelectron Spectra of TiO ₂ Nanoparticles in an Aqueous Electrolyte Solution. Journal of Physical Chemistry Letters, 2016, 7, 1732-1735.	2.1	26
34	A Fourier transform mass spectrometer for surface analysis by laserâ€induced thermal desorption of molecular adsorbates. Review of Scientific Instruments, 1990, 61, 1674-1684.	0.6	25
35	Minimizing Transmission Electron Microscopy Beam Damage during the Study of Surface Reactions on Sodium Chloride. Microscopy and Microanalysis, 1998, 4, 23-33.	0.2	23
36	High-Throughput Measurement of the Seebeck Coefficient and the Electrical Conductivity of Lithographically Patterned Polycrystalline PbTe Nanowires. Journal of Physical Chemistry Letters, 2010, 1, 3004-3011.	2.1	23

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37	Effects of Coadsorbed Hydrogen (or D) on the Dehydrogenation of Cyclohexane on Pt(111): Observation of the Production of Adsorbed Cyclohexyl (C6H11). Journal of Physical Chemistry B, 2000, 104, 6554-6561.	1.2	19
38	Spectroscopic and Electrochemical Characterization of the Photochromic Behavior of Prussian Blue Films on n â€â€‰SrTiO3. Journal of the Electrochemical Society, 1987, 134, 358-363.	1.3	17
39	Aqueous electrochemical growth of anodic sulfide films on mercury cadmium telluride. Applied Physics Letters, 1989, 54, 2238-2240.	1.5	17
40	High-Resolution X-ray Photoelectron Spectroscopy of Organometallic (C ₅ H ₄ SiMe ₃) ₃ Ln ^{III} and [(C ₅ H ₄ SiMe ₃) ₃ Ln ^{II}] ^{1–} Complexes (Ln = Sm, Eu, Gd, Tb). Journal of the American Chemical Society, 2021, 143, 16610-16620.	6.6	17
41	The interface chemistry of HgCdTe passivated with native sulfide layers grown from nonaqueous and aqueous polysulfide solutions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 469-473.	0.9	16
42	Displacement of Thiophene by Methanethiol Observed in Situ by Scanning Tunneling Microscopy and Quartz Crystal Oscillator Gravimetric Analysis on Au(111). Langmuir, 1998, 14, 6676-6680.	1.6	16
43	Effective one-particle energies from generalized Kohn–Sham random phase approximation: A direct approach for computing and analyzing core ionization energies. Journal of Chemical Physics, 2019, 151, 134106.	1.2	16
44	Stability of Cu/TiO ₂ Nanoparticle Model Catalysts under Electrochemical CO ₂ Reduction Conditions. ACS Catalysis, 2021, 11, 6960-6970.	5.5	16
45	D ₂ 0 Water Interaction with Mixed Alkane Thiol Monolayers of Tuned Hydrophobic and Hydrophilic Character. Journal of Physical Chemistry C, 2008, 112, 890-894.	1.5	15
46	The nature of the phase transition observed for monolayers of azulene on Pt(111). Journal of Chemical Physics, 1981, 75, 5573-5574.	1.2	13
47	A cluster approach to the analysis of adsorbate vibrations. Journal of Chemical Physics, 1985, 82, 3858-3867.	1.2	11
48	Molecular Arrangement of a Mixture of Organosulfur Surfactants at the Aqueous Solution–Vapor Interface Studied by Photoelectron Intensity and Angular Distribution Measurements and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2019, 123, 8160-8170.	1.5	11
49	Predissociation of Cyclobutanone Studied by Fluorescence Excitation Spectroscopy and Single Vibronic Level Photochemistry. Journal of Chemical Physics, 1971, 54, 1405-1406.	1.2	10
50	Passivation of HgCdTe with CdS thin films: Correlation of device characteristics with surface spectroscopy. Journal of Applied Physics, 1989, 65, 2523-2529.	1.1	10
51	Polycrystallinen‧rTiO3as an electrode for the photoelectrochromic switching of Prussian blue films. Journal of Applied Physics, 1987, 61, 3099-3104.	1.1	9
52	Characterization of Fe ²⁺ Aqueous Solutions with Liquid Jet X-ray Photoelectron Spectroscopy: Chloride Depletion at the Liquid/Vapor Interface Due to Complexation with Fe ²⁺ . Journal of Physical Chemistry B, 2019, 123, 8285-8290.	1.2	9
53	D ₂ O Water Interaction with Textured Carboxylic Acid-Terminated Monolayer Surfaces Characterized by Temperature-Programmed Desorption and Molecular Dynamics. Journal of Physical Chemistry C, 2010, 114, 1570-1579.	1.5	8
54	Summary Abstract: Surface reactions studied by laserâ€induced thermal desorption with Fourier transform mass spectrometry detection. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 1507-1509.	0.9	6

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55	Defects in C(2×2) oxygen overlayers on Ni(100): The effect on vibrational spectra. Journal of Chemical Physics, 1987, 86, 2986-2989.	1.2	6
56	Exploring the Solvation of Acetic Acid in Water Using Liquid Jet X-ray Photoelectron Spectroscopy and Core Level Electron Binding Energy Calculations. Journal of Physical Chemistry B, 2021, 125, 8862-8868.	1.2	6
57	Sample mounting and transfer for coupling an ultrahigh vacuum variable temperature beetle scanning tunneling microscope with conventional surface probes. Review of Scientific Instruments, 2001, 72, 157-162.	0.6	4
58	Control of the UTI 100C quadrupole mass spectrometer with an inexpensive microcomputer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 81-83.	0.9	3
59	Summary Abstract: Characterization of multilayer thin films by laserâ€induced thermal desorption mass spectrometry. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 1024-1025.	0.9	2
60	Chemistry of HNO3on Ge(100). Journal of Physical Chemistry B, 1998, 102, 5069-5076.	1.2	2
61	Summary Abstract: Xâ€ray photoelectron spectroscopy studies of the partial hydrogenation of cyanogen on Pt(111): Comparison with HCN and ethylenediamine. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 1135-1137.	0.9	1
62	Summary Abstract: The effect of oriented defects on longâ€range ordering of hydrocarbon films: Azulene on Pt(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 849-850.	0.9	0
63	Nucleated growth of iron pyrite on highly oriented pyrolytic graphite (hopg) by chemical vapor deposition (CVD). Microscopy and Microanalysis, 2014, 20, 2118-2119.	0.2	0
64	LASER-INDUCED DESORPTION FOURIER TRANSFORM MASS SPECTROMETRY: A MOLECULAR PROBE OF SURFACES AND SURFACE REACTIONS. Advanced Series in Physical Chemistry, 1995, , 275-323.	1.5	0