

# John L Fulton

## List of Publications by Year in descending order

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61  
papers

3,648  
citations

101543

36  
h-index

133252

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane Oxidation to Methanol Catalyzed by Cu-Oxo Clusters Stabilized in NU-1000 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 10294-10301.	13.7	282
2	Sintering-Resistant Single-Site Nickel Catalyst Supported by Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 1977-1982.	13.7	273
3	Understanding the Effects of Concentration on the Solvation Structure of Ca <sup>2+</sup> in Aqueous Solution. I: The Perspective on Local Structure from EXAFS and XANES. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4688-4696.	2.5	201
4	Quantitatively Probing the Al Distribution in Zeolites. <i>Journal of the American Chemical Society</i> , 2014, 136, 8296-8306.	13.7	199
5	Is It Homogeneous or Heterogeneous Catalysis Derived from [RhCp*Cl] <sub>2</sub> In Operando XAFS, Kinetic, and Crucial Kinetic Poisoning Evidence for Subnanometer Rh <sub>4</sub> Cluster-Based Benzene Hydrogenation Catalysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 18889-18902.	13.7	147
6	Selective Methane Oxidation to Methanol on Cu-Oxo Dimers Stabilized by Zirconia Nodes of an NU-1000 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 9292-9304.	13.7	131
7	Direct Modeling of EXAFS Spectra from Molecular Dynamics Simulations. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13393-13398.	2.9	129
8	Copper(I) and Copper(II) Coordination Structure under Hydrothermal Conditions at 325 °C: An X-ray Absorption Fine Structure and Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 11651-11663.	2.5	117
9	Supersaturated calcium carbonate solutions are classical. <i>Science Advances</i> , 2018, 4, eaao6283.	10.3	116
10	Molecular Simulation Analysis and X-ray Absorption Measurement of Ca <sup>2+</sup> , K <sup>+</sup> and Cl <sup>-</sup> Ions in Solution. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23644-23654.	2.6	115
11	An X-ray absorption fine structure study of copper(I) chloride coordination structure in water up to 325 °C. <i>Chemical Physics Letters</i> , 2000, 330, 300-308.	2.6	95
12	Rh(CAAC)-Catalyzed Arene Hydrogenation: Evidence for Nanocatalysis and Sterically Controlled Site-Selective Hydrogenation. <i>ACS Catalysis</i> , 2018, 8, 8441-8449.	11.2	94
13	A Transition in the Ni <sup>2+</sup> Complex Structure from Six- to Four-Coordinate upon Formation of Ion Pair Species in Supercritical Water: An X-ray Absorption Fine Structure, Near-Infrared, and Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8471-8482.	2.5	91
14	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 909-913.	13.8	88
15	Well-Defined Rhodium-Gallium Catalytic Sites in a Metal-Organic Framework: Promoter-Controlled Selectivity in Alkyne Semihydrogenation to <i>E</i> -Alkenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 15309-15318.	13.7	88
16	Copper-zirconia interfaces in UiO-66 enable selective catalytic hydrogenation of CO <sub>2</sub> to methanol. <i>Nature Communications</i> , 2020, 11, 5849.	12.8	86
17	Bridging Zirconia Nodes within a Metal-Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. <i>Journal of the American Chemical Society</i> , 2017, 139, 10410-10418.	13.7	74
18	Tracking the Chemical Transformations at the Brønsted Acid Site upon Water-Induced Deprotonation in a Zeolite Pore. <i>Chemistry of Materials</i> , 2017, 29, 9030-9042.	6.7	71

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19	Aqueous phase catalytic and electrocatalytic hydrogenation of phenol and benzaldehyde over platinum group metals. <i>Journal of Catalysis</i> , 2020, 382, 372-384.	6.2	68
20	Defining Active Catalyst Structure and Reaction Pathways from ab Initio Molecular Dynamics and Operando XAFS: Dehydrogenation of Dimethylaminoborane by Rhodium Clusters. <i>Journal of the American Chemical Society</i> , 2009, 131, 10516-10524.	13.7	67
21	Impact of Zeolite Aging in Hot Liquid Water on Activity for Acid-Catalyzed Dehydration of Alcohols. <i>Journal of the American Chemical Society</i> , 2015, 137, 10374-10382.	13.7	63
22	Formation of Active Cu-oxo Clusters for Methane Oxidation in Cu-Exchanged Mordenite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8759-8769.	3.1	60
23	Environment of Metal-O-Fe Bonds Enabling High Activity in CO <sub>2</sub> Reduction on Single Metal Atoms and on Supported Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021, 143, 5540-5549.	13.7	54
24	Hydrated Structure of Ag(I) Ion from Symmetry-Dependent, K- and L-Edge XAFS Multiple Scattering and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13976-13984.	2.5	51
25	Carbon-supported Pt during aqueous phenol hydrogenation with and without applied electrical potential: X-ray absorption and theoretical studies of structure and adsorbates. <i>Journal of Catalysis</i> , 2018, 368, 8-19.	6.2	49
26	Structure of Hydronium (H <sub>3</sub> O <sup>+</sup> )/Chloride (Cl <sup>-</sup> ) Contact Ion Pairs in Aqueous Hydrochloric Acid Solution: A Zundel-like Local Configuration. <i>Journal of the American Chemical Society</i> , 2010, 132, 12597-12604.	13.7	47
27	Operando XAFS Studies on Rh(CAAC)-Catalyzed Arene Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 4106-4114.	11.2	46
28	The Aqueous Ca <sup>2+</sup> System, in Comparison with Zn <sup>2+</sup> , Fe <sup>3+</sup> , and Al <sup>3+</sup> : An Ab Initio Molecular Dynamics Study. <i>Chemistry - A European Journal</i> , 2013, 19, 3047-3060.	3.3	45
29	Atomic Layer Deposition in a Metal-Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. <i>Chemistry of Materials</i> , 2017, 29, 1058-1068.	6.7	45
30	Many-Body Effects Determine the Local Hydration Structure of Cs <sup>+</sup> in Solution. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 406-412.	4.6	45
31	State of Supported Pd during Catalysis in Water. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17603-17612.	3.1	43
32	Hydration and contact ion pairing of Ca <sup>2+</sup> with Cl <sup>-</sup> in supercritical aqueous solution. <i>Journal of Chemical Physics</i> , 2006, 125, 094507.	3.0	41
33	Near-Quantitative Agreement of Model-Free DFT-MD Predictions with XAFS Observations of the Hydration Structure of Highly Charged Transition-Metal Ions. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2588-2593.	4.6	40
34	Quantifying Adsorption of Organic Molecules on Platinum in Aqueous Phase by Hydrogen Site Blocking and in Situ X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2019, 9, 6869-6881.	11.2	40
35	Ion-pairing in aqueous CaCl <sub>2</sub> and RbBr solutions: Simultaneous structural refinement of XAFS and XRD data. <i>Journal of Chemical Physics</i> , 2013, 138, 044201.	3.0	39
36	Quantifying the hydration structure of sodium and potassium ions: taking additional steps on Jacob's Ladder. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10641-10652.	2.8	38

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37	Coordination Sphere of Lanthanide Aqua Ions Resolved with Ab Initio Molecular Dynamics and X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2021, 60, 3117-3130.	4.0	33
38	Inverse iron oxide/metal catalysts from galvanic replacement. <i>Nature Communications</i> , 2020, 11, 3269.	12.8	31
39	Importance of Methane Chemical Potential for Its Conversion to Methanol on Cu-Exchanged Mordenite. <i>Chemistry - A European Journal</i> , 2020, 26, 7563-7567.	3.3	31
40	Elementary Steps of Faujasite Formation Followed by in Situ Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 888-897.	6.7	29
41	Determination of the Dominant Catalyst Derived from the Classic [RhCp*Cl] <sub>2</sub> Precatalyst System: Is it Single-Metal Rh <sub>1</sub> Cp*-Based, Subnanometer Rh <sub>4</sub> Cluster-Based, or Rh(O) <sub>n</sub> Nanoparticle-Based Cyclohexene Hydrogenation Catalysis at Room Temperature and Mild Pressures?. <i>ACS Catalysis</i> , 2015, 5, 3876-3886.	11.2	28
42	Activity of Cu-Al-Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. <i>Jacs Au</i> , 2021, 1, 1412-1421.	7.9	21
43	Electronic and Chemical State of Aluminum from the Single- (K) and Double-Electron Excitation (KL <sub>II&amp;III</sub> , KL <sub>I</sub> ) X-ray Absorption Near-Edge Spectra of $\gamma$ -Alumina, Sodium Aluminate, Aqueous Al <sup>3+</sup> -(H <sub>2</sub> O) <sub>6</sub> , and Aqueous Al(OH) <sub>4</sub> <sup>-</sup> . <i>Journal of Physical Chemistry B</i> , 2015, 119, 8380-8388.	2.6	20
44	Structural Characteristics of Amorphous Calcium Sulfate: Evidence to the Role of Water Molecules. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3415-3420.	3.1	19
45	High-pressure, high-temperature x-ray absorption fine structure transmission cell for the study of aqueous ions with low absorption-edge energies. <i>Review of Scientific Instruments</i> , 2004, 75, 5228-5231.	1.3	18
46	Understanding the Role of Surface Heterogeneities in Electrosynthesis Reactions. <i>IScience</i> , 2020, 23, 101814.	4.1	16
47	Glucose- and Cellulose-Derived Ni/CSO <sub>3</sub> H Catalysts for Liquid Phase Phenol Hydrodeoxygenation. <i>Chemistry - A European Journal</i> , 2015, 21, 1567-1577.	3.3	14
48	State of Supported Nickel Nanoparticles during Catalysis in Aqueous Media. <i>Chemistry - A European Journal</i> , 2015, 21, 16541-16546.	3.3	14
49	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19144-19154.	13.8	11
50	Speciation of Cu-Oxo Clusters in Ferrierite for Selective Oxidation of Methane to Methanol. <i>Chemistry of Materials</i> , 2022, 34, 4355-4363.	6.7	11
51	Nanometer-Scale Correlations in Aqueous Salt Solutions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2598-2604.	4.6	10
52	Ionic Contraction across the Lanthanide Series Decreases the Temperature-Induced Disorder of the Water Coordination Sphere. <i>Inorganic Chemistry</i> , 2022, 61, 287-294.	4.0	10
53	High-resolution Measurement of Contact Ion-pair Structures in Aqueous RbCl Solutions from the Simultaneous Corefinement of their Rb and Cl K-edge XAFS and XRD Spectra. <i>Journal of Solution Chemistry</i> , 2016, 45, 1061-1070.	1.2	9
54	Anticorrelated Contributions to Pre-edge Features of Aluminate Near-Edge X-ray Absorption Spectroscopy in Concentrated Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2444-2449.	4.6	9

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55	Metal-organic framework supported single-site nickel catalysts for butene dimerization. Journal of Catalysis, 2022, 413, 176-183.	6.2	9
56	A variable ultra-short-pathlength solution cell for XAFS transmission spectroscopy of light elements. Journal of Synchrotron Radiation, 2012, 19, 949-953.	2.4	8
57	Contact ion-pair structure in concentrated cesium chloride aqueous solutions: An extended X-ray absorption fine structure study. Journal of Electron Spectroscopy and Related Phenomena, 2018, 229, 20-25.	1.7	7
58	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, 19293-19303.	2.0	6
59	Near-Quantitative Predictions of the First-Shell Coordination Structure of Hydrated First-Row Transition Metal Ions Using K-Edge X-ray Absorption Near-Edge Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 6323-6330.	4.6	6
60	Frontispiece: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
61	Frontispiz: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. Angewandte Chemie, 2021, 133, .	2.0	0