

# Dimosthenis Sokaras

## List of Publications by Citations

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193  
papers

9,659  
citations

46  
h-index

94  
g-index

207  
ext. papers

11,627  
ext. citations

8.9  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
193	Identification of highly active Fe sites in (Ni,Fe)OOH for electrocatalytic water splitting. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1305-13	16.4	1553
192	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 744-749	28.7	828
191	Simultaneous femtosecond X-ray spectroscopy and diffraction of photosystem II at room temperature. <i>Science</i> , <b>2013</b> , 340, 491-5	33.3	334
190	Tracking excited-state charge and spin dynamics in iron coordination complexes. <i>Nature</i> , <b>2014</b> , 509, 345-349	30.4	319
189	Structures of the intermediates of Kok's photosynthetic water oxidation clock. <i>Nature</i> , <b>2018</b> , 563, 421-425	35.4	261
188	Structure of photosystem II and substrate binding at room temperature. <i>Nature</i> , <b>2016</b> , 540, 453-457	50.4	260
187	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10504-10513	16.4	208
186	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7851-7859	16.4	184
185	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. <i>Nature Communications</i> , <b>2014</b> , 5, 4371	17.4	184
184	Understanding interactions between manganese oxide and gold that lead to enhanced activity for electrocatalytic water oxidation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4920-6	16.4	182
183	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 3241-3249	11.5	163
182	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 311-317	8.3	153
181	Nanoflow electrospinning serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2012</b> , 68, 1584-7		146
180	Identification of the active complex for CO oxidation over single-atom Ir-on-MgAl <sub>2</sub> O <sub>4</sub> catalysts. <i>Nature Catalysis</i> , <b>2019</b> , 2, 149-156	36.5	144
179	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9721-6	11.5	135
178	Phase transformation and lithiation effect on electronic structure of Li(x)FePO <sub>4</sub> : an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13708-15	16.4	121
177	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , <b>2014</b> , 11, 545-8	21.6	118

176	A multi-crystal wavelength dispersive x-ray spectrometer. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 073114	11.4	115
175	Fully Oxidized NiFe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6027-6032	13.1	112
174	Systematic Structure-Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7810-7821	13.1	110
173	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. <i>Nature Methods</i> , <b>2017</b> , 14, 443-449	21.6	107
172	A seven-crystal Johann-type hard x-ray spectrometer at the Stanford Synchrotron Radiation Lightsource. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 053102	1.7	107
171	Revealing and suppressing surface Mn(II) formation of Na <sub>0.44</sub> MnO <sub>2</sub> electrodes for Na-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 16, 186-195	17.1	98
170	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19103-7	11.5	98
169	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 225-38	2.4	95
168	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5780-5784	16.4	89
167	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5399-5409	13.1	88
166	Metalloprotein entatic control of ligand-metal bonds quantified by ultrafast x-ray spectroscopy. <i>Science</i> , <b>2017</b> , 356, 1276-1280	33.3	86
165	Depth-Dependent Redox Behavior of LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A696-A704	3.9	84
164	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	84
163	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. <i>Chemical Science</i> , <b>2017</b> , 8, 515-523	9.4	79
162	Electrochemical Oxidation of Size-Selected Pt Nanoparticles Studied Using in Situ High-Energy-Resolution X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2371-2376	13.1	78
161	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 17460-7	3.6	76
160	Multiconfigurational nature of 5f orbitals in uranium and plutonium intermetallics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 10205-9	11.5	74
159	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. <i>Nature Catalysis</i> , <b>2020</b> , 3, 743-753	36.5	71

158	Origin of electrochromism in high-performing nanocomposite nickel oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 3643-9	9.5	67
157	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated [Co(terpy) <sub>2</sub> ] <sup>2+</sup> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 013002	7.4	65
156	A high resolution and large solid angle x-ray Raman spectroscopy end-station at the Stanford Synchrotron Radiation Lightsource. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 043112	1.7	64
155	Structure, Redox Chemistry, and Interfacial Alloy Formation in Monolayer and Multilayer Cu/Au(111) Model Catalysts for CO <sub>2</sub> Electroreduction. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7954-7961	3.8	58
154	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. <i>Chemical Science</i> , <b>2019</b> , 10, 5749-5760	9.4	54
153	Exposed Equatorial Positions of Metal Centers via Sequential Ligand Elimination and Installation in MOFs. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10814-10819	16.4	50
152	Covalency in metal-oxygen multiple bonds evaluated using oxygen K-edge spectroscopy and electronic structure theory. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 1864-71	16.4	50
151	Synchrotron-based chemical imaging reveals plumage patterns in a 150 million year old early bird. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2013</b> , 28, 1024	3.7	50
150	A deep view in cultural heritage: Confocal micro X-ray spectroscopy for depth resolved elemental analysis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 106, 325-338	2.6	49
149	Experimental and computational X-ray emission spectroscopy as a direct probe of protonation states in oxo-bridged Mn(IV) dimers relevant to redox-active metalloproteins. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12915-22	5.1	49
148	Resonant inelastic X-ray scattering on ferrous and ferric bis-imidazole porphyrin and cytochrome c: nature and role of the axial methionine-Fe bond. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 18087-99	16.4	48
147	Why LiFePO <sub>4</sub> is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 26369-77	3.6	46
146	Combined elemental analysis of ancient glass beads by means of ion beam, portable XRF, and EPMA techniques. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 2199-209	4.4	43
145	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. <i>Nature Communications</i> , <b>2020</b> , 11, 634	17.4	41
144	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2'-bipyridine)(CN)]. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4238-4249	3.6	41
143	Synchrotron imaging reveals bone healing and remodelling strategies in extinct and extant vertebrates. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140277	4.1	41
142	Ligand manipulation of charge transfer excited state relaxation and spin crossover in [Fe(2,2'-bipyridine)(CN)]. <i>Structural Dynamics</i> , <b>2017</b> , 4, 044030	3.2	38
141	Elemental characterisation of melanin in feathers via synchrotron X-ray imaging and absorption spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 34002	4.9	36

140	Oxidation and crystal field effects in uranium. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	35
139	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	34
138	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2496-2508	35.4	34
137	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , <b>2018</b> , 120, 023901	9.1	33
136	Finite temperature effects on the X-ray absorption spectra of lithium compounds: first-principles interpretation of X-ray Raman measurements. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 034107	3.9	33
135	X-ray Fluorescence analytical criteria to assess the fineness of ancient silver coins: Application on Ptolemaic coinage. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2011</b> , 66, 681-690	3.1	33
134	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118369	21.8	33
133	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 230, 22-28	6.7	32
132	Revealing Electronic Signature of Lattice Oxygen Redox in Lithium Ruthenates and Implications for High-Energy Li-ion Battery Material Designs. <i>Chemistry of Materials</i> , <b>2019</b> , 31,	9.6	32
131	Delocalization and occupancy effects of 5f orbitals in plutonium intermetallics using L3-edge resonant X-ray emission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2014</b> , 194, 57-65	1.7	32
130	Structural Changes Correlated with Magnetic Spin State Isomorphism in the S State of the MnCaO Cluster in the Oxygen-Evolving Complex of Photosystem II. <i>Chemical Science</i> , <b>2016</b> , 7, 5236-5248	9.4	32
129	Simultaneous detection of electronic structure changes from two elements of a bifunctional catalyst using wavelength-dispersive X-ray emission spectroscopy and in situ electrochemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8901-12	3.6	31
128	Localized Electronic Structure of Nitrogenase FeMoco Revealed by Selenium K-Edge High Resolution X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13676-13688	16.4	31
127	Leaf metallome preserved over 50 million years. <i>Metallomics</i> , <b>2014</b> , 6, 774-82	4.5	31
126	Self-Doping and Electrical Conductivity in Spinel Oxides: Experimental Validation of Doping Rules. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1867-1873	9.6	31
125	Photon-in photon-out hard X-ray spectroscopy at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 612-20	2.4	30
124	Performance of a polycapillary half lens as focussing and collecting optic – comparison. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 669	3.7	30
123	Acidic Oxygen Evolution Reaction Activity-Stability Relationships in Ru-Based Pyrochlores. <i>ACS Catalysis</i> , <b>2020</b> , 10, 12182-12196	13.1	30

122	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. <i>Physical Review Letters</i> , <b>2018</b> , 120, 133203	7.4	29
121	3D Micro PIXE – new technique for depth-resolved elemental analysis. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1260	3.7	29
120	High-Energy-Resolution X-ray Absorption Spectroscopy for Identification of Reactive Surface Species on Supported Single-Site Iridium Catalysts. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14760-14768	4.8	28
119	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 364-372	16.4	28
118	X-ray Emission Spectroscopy as an in Situ Diagnostic Tool for X-ray Crystallography of Metalloproteins Using an X-ray Free-Electron Laser. <i>Biochemistry</i> , <b>2018</b> , 57, 4629-4637	3.2	27
117	The mapping and differentiation of biological and environmental elemental signatures in the fossil remains of a 50 million year old bird. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 627-634	3.7	26
116	Rethinking the Minamata Tragedy: What Mercury Species Was Really Responsible?. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2726-2733	10.3	25
115	Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 113101	1.7	25
114	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. <i>Materials Today</i> , <b>2020</b> , 35, 87-98	21.8	23
113	Geometry of electromechanically active structures in Gadolinium - doped Cerium oxides. <i>AIP Advances</i> , <b>2016</b> , 6, 055320	1.5	22
112	Direct Observation of Methylmercury and Auranofin Binding to Selenocysteine in Thioredoxin Reductase. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 2711-2718	5.1	21
111	To Transfer or Not to Transfer? Development of a Dinitrosyl Iron Complex as a Nitroxyl Donor for the Nitroxylation of an Fe(III) -Porphyrin Center. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 17570-3	4.8	21
110	K <sup>IV</sup> Valence to Core X-ray Emission Studies of Cu(I) Binding Proteins with Mixed Methionine - Histidine Coordination. Relevance to the Reactivity of the M- and H-sites of Peptidylglycine Monooxygenase. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 3431-9	5.1	21
109	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , <b>2021</b> , 13, 343-349	17.6	21
108	Secondary fluorescence enhancement in confocal X-ray microscopy analysis. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 4946-54	7.8	20
107	Charge and Spin-State Characterization of Cobalt Bis(o-dioxolene) Valence Tautomers Using Co K <sup>II</sup> X-ray Emission and L-Edge X-ray Absorption Spectroscopies. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 737-747	5.1	19
106	Resonant inelastic X-ray scattering determination of the electronic structure of oxyhemoglobin and its model complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2854-2859	11.5	19
105	X-ray Absorption Spectroscopy Investigations of Copper(II) Coordination in the Human Amyloid $\beta$ Peptide. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6294-6311	5.1	19

104	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 22651-8	3.6	19
103	Noninvasive Synchrotron-Based X-ray Raman Scattering Discriminates Carbonaceous Compounds in Ancient and Historical Materials. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10819-10826	7.8	19
102	L-edge spectroscopy of dilute, radiation-sensitive systems using a transition-edge-sensor array. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 214201	3.9	19
101	Ultrafast nonthermal heating of water initiated by an X-ray Free-Electron Laser. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5652-5657	11.5	19
100	Focus characterization at an X-ray free-electron laser by coherent scattering and speckle analysis. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 599-605	2.4	18
99	Hard X-rays in/soft X-rays out: An operando piggyback view deep into a charging lithium ion battery with X-ray Raman spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2015</b> , 200, 257-263	1.7	18
98	A versatile Johansson-type tender x-ray emission spectrometer. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 033101	1.7	18
97	Covalency in oxidized uranium. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	18
96	3D Micro-PIXE at atmospheric pressure: A new tool for the investigation of art and archaeological objects. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 264, 383-388	1.2	18
95	Probing 5f-state configurations in URu <sub>2</sub> Si <sub>2</sub> with U LIII-edge resonant x-ray emission spectroscopy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	18
94	Determining Atomic-Scale Structure and Composition of Organo-Lead Halide Perovskites by Combining High-Resolution X-ray Absorption Spectroscopy and First-Principles Calculations. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1183-1189	20.1	17
93	In situ X-ray Raman spectroscopy of LiBH <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 5581-7	3.6	17
92	Solvation structures of protons and hydroxide ions in water. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 154506	3.6	17
91	Pheomelanin pigment remnants mapped in fossils of an extinct mammal. <i>Nature Communications</i> , <b>2019</b> , 10, 2250	17.4	15
90	[Ni(OMe)]-mediated reductive activation of CO affording a Ni( $\eta^5$ OCO) complex. <i>Chemical Science</i> , <b>2016</b> , 7, 3640-3644	9.4	15
89	New insights into the chemical and isotopic composition of human-body biominerals. I: Cholesterol gallstones from England and Greece. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2013</b> , 27, 79-84	4.1	15
88	Three-dimensional imaging of aerosol particles with scanning proton microprobe in a confocal arrangement. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 094104	3.4	15
87	Separate measurement of the 5f <sub>5/2</sub> and 5f <sub>7/2</sub> unoccupied density of states of UO <sub>2</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2019</b> , 232, 100-104	1.7	14

86	Quantitative analysis in confocal micro-PIXE general concept and layered materials. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 611	3.7	14
85	Reference-free x-ray fluorescence analysis of an ancient Chinese ceramic. <i>X-Ray Spectrometry</i> , <b>2008</b> , 37, 462-465	0.9	14
84	Operando Observation of Chemical Transformations of Iridium Oxide During Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1371-1379	6.1	14
83	Towards characterization of photo-excited electron transfer and catalysis in natural and artificial systems using XFELs. <i>Faraday Discussions</i> , <b>2016</b> , 194, 621-638	3.6	13
82	Electronic structure study of the CdS buffer layer in CIGS solar cells by X-ray absorption spectroscopy: Experiment and theory. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 149, 275-283	6.4	13
81	Electronic structure changes upon lithium intercalation into graphite [Insights from ex situ and operando x-ray Raman spectroscopy. <i>Carbon</i> , <b>2019</b> , 143, 371-377	10.4	13
80	Resolving structures of transition metal complex reaction intermediates with femtosecond EXAFS. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 2660-2666	3.6	13
79	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. <i>Geology</i> , <b>2015</b> , 43, 1007-1010	5	12
78	Observation of 5f intermediate coupling in uranium x-ray emission spectroscopy. <i>Journal of Physics Communications</i> , <b>2020</b> , 4, 015013	1.2	12
77	Resonant Raman scattering of polarized and unpolarized x-ray radiation from Mg, Al, and Si. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	12
76	Cascade L-shell soft-x-ray emission as incident x-ray photons are tuned across the 1s ionization threshold. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	12
75	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 372-380	3.6	12
74	Calcium-Uranyl-Carbonato Species Kinetically Limit U(VI) Reduction by Fe(II) and Lead to U(V)-Bearing Ferrihydrite. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6021-6030	10.3	11
73	Towards controlling the reversibility of anionic redox in transition metal oxides for high-energy Li-ion positive electrodes. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2322-2334	35.4	11
72	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi <sub>0.045</sub> Cu <sub>0.185</sub> Fe <sub>0.265</sub> Mn <sub>0.505</sub> O <sub>2</sub> Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11428-11435	3.8	10
71	EXAFS as a probe of actinide oxide formation in the tender X-ray regime. <i>Surface Science</i> , <b>2020</b> , 698, 121607	1.2	10
70	Application of FEFF analyses to actinide 5f systems. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 036001	2.9	10
69	The new external ion beam analysis setup at the Demokritos Tandem accelerator and first applications in cultural heritage. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 519-527	1.2	10



68	A high-throughput energy-dispersive tender X-ray spectrometer for shot-to-shot sulfur measurements. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 629-634	2.4	10
67	Unveiling the critical role of the Mn dopant in a NiFe(OH) <sub>2</sub> catalyst for water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17471-17476	13	10
66	A Photochemically Generated Selenyl Free Radical Observed by High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 10867-10872	5.1	10
65	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution.. <i>Nature Materials</i> , <b>2022</b> ,	27	10
64	Hybrid X-ray Spectroscopy-Based Approach To Acquire Chemical and Structural Information of Single-Walled Carbon Nanotubes with Superior Sensitivity. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 6114-6120	3.8	9
63	In situ scanning micro-XRF analyses of gilded bronze figurines at the National Museum of Damascus. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1787-1798	3.7	9
62	Carbon Core Electron Spectra of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 5730-5734	2.8	9
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