

Dimosthenis Sokaras

List of Publications by Year in descending order

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201
papers

13,716
citations

36203

51
h-index

23472

111
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207
all docs

207
docs citations

207
times ranked

17390
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Highly Active Fe Sites in (Ni,Fe)OOH for Electrocatalytic Water Splitting. Journal of the American Chemical Society, 2015, 137, 1305-1313.	6.6	2,018
2	Janus monolayers of transition metal dichalcogenides. Nature Nanotechnology, 2017, 12, 744-749.	15.6	1,459
3	Structures of the intermediates of Kokor's photosynthetic water oxidation clock. Nature, 2018, 563, 421-425.	13.7	386
4	Tracking excited-state charge and spin dynamics in iron coordination complexes. Nature, 2014, 509, 345-348.	13.7	382
5	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. Science, 2013, 340, 491-495.	6.0	378
6	Structure of photosystem II and substrate binding at room temperature. Nature, 2016, 540, 453-457.	13.7	323
7	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	6.6	310
8	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. Journal of the American Chemical Society, 2018, 140, 10504-10513.	6.6	303
9	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	4.5	237
10	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	3.2	236
11	Identification of the active complex for CO oxidation over single-atom Ir-on-MgAl ₂ O ₄ catalysts. Nature Catalysis, 2019, 2, 149-156.	16.1	222
12	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. Nature Communications, 2014, 5, 4371.	5.8	206
13	Understanding Interactions between Manganese Oxide and Gold That Lead to Enhanced Activity for Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2014, 136, 4920-4926.	6.6	205
14	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. Nature Catalysis, 2020, 3, 743-753.	16.1	199
15	Nanoflow electrospinning serial femtosecond crystallography. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1584-1587.	2.5	167
16	Fully Oxidized Ni-Fe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. ACS Catalysis, 2019, 9, 6027-6032.	5.5	165
17	Systematic Structure-Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821.	5.5	151
18	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. Nature Methods, 2017, 14, 443-449.	9.0	150

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19	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9721-9726.	3.3	144
20	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. Nature Methods, 2014, 11, 545-548.	9.0	140
21	Phase Transformation and Lithiation Effect on Electronic Structure of $\text{Li}_{1-x}\text{FePO}_4$: An In-Depth Study by Soft X-ray and Simulations. Journal of the American Chemical Society, 2012, 134, 13708-13715.	6.6	136
22	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. Communications Physics, 2018, 1, .	2.0	135
23	A seven-crystal Johann-type hard x-ray spectrometer at the Stanford Synchrotron Radiation Lightsource. Review of Scientific Instruments, 2013, 84, 053102.	0.6	132
24	A multi-crystal wavelength dispersive x-ray spectrometer. Review of Scientific Instruments, 2012, 83, 073114.	0.6	130
25	Depth-Dependent Redox Behavior of $\text{Li}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$. Journal of the Electrochemical Society, 2018, 165, A696-A704.	1.3	123
26	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. Nature Materials, 2022, 21, 673-680.	13.3	123
27	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2017, 7, 5399-5409.	5.5	120
28	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19103-19107.	3.3	113
29	Acidic Oxygen Evolution Reaction Activity-Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	5.5	111
30	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. Journal of Synchrotron Radiation, 2015, 22, 225-238.	1.0	110
31	Metalloprotein entatic control of ligand-metal bonds quantified by ultrafast x-ray spectroscopy. Science, 2017, 356, 1276-1280.	6.0	109
32	Revealing and suppressing surface Mn(II) formation of $\text{Na}_{0.44}\text{MnO}_2$ electrodes for Na-ion batteries. Nano Energy, 2015, 16, 186-195.	8.2	107
33	An Oxygen-insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 5780-5784.	7.2	106
34	Electrochemical Oxidation of Size-Selected Pt Nanoparticles Studied Using in Situ High-Energy-Resolution X-ray Absorption Spectroscopy. ACS Catalysis, 2012, 2, 2371-2376.	5.5	105
35	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. Chemical Science, 2017, 8, 515-523.	3.7	102
36	Multiconfigurational nature of 5f orbitals in uranium and plutonium intermetallics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10205-10209.	3.3	94

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37	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. <i>Chemical Science</i> , 2019, 10, 5749-5760.	3.7	90
38	On the chemical state of Co oxide electrocatalysts during alkaline water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17460.	1.3	89
39	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated Co^{2+} Ions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10784-10791.	2.9	86
40	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> , 2012, 83, 043112.	0.6	81
41	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. <i>Nature Communications</i> , 2020, 11, 634.	5.8	75
42	Origin of Electrochromism in High-Performing Nanocomposite Nickel Oxide. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3643-3649.	4.0	73
43	Exposed Equatorial Positions of Metal Centers via Sequential Ligand Elimination and Installation in MOFs. <i>Journal of the American Chemical Society</i> , 2018, 140, 10814-10819.	6.6	70
44	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> , 2012, 106, 325-338.	1.1	68
45	Structure, Redox Chemistry, and Interfacial Alloy Formation in Monolayer and Multilayer Cu/Au(111) Model Catalysts for CO_2 Electroreduction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7954-7961.	1.5	68
46	Ni ₅ Ga ₃ catalysts for CO ₂ reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118369.	10.8	68
47	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , 2018, 120, 023901.	2.9	64
48	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> , 2013, 52, 12915-12922.	1.9	62
49	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021, 13, 343-349.	6.6	59
50	Covalency in Metal–Oxygen Multiple Bonds Evaluated Using Oxygen K-edge Spectroscopy and Electronic Structure Theory. <i>Journal of the American Chemical Society</i> , 2013, 135, 1864-1871.	6.6	57
51	Resonant Inelastic X-ray Scattering on Ferrous and Ferric Bis-imidazole Porphyrin and Cytochrome <i>c</i> : Nature and Role of the Axial Methionine–Fe Bond. <i>Journal of the American Chemical Society</i> , 2014, 136, 18087-18099.	6.6	56
52	Synchrotron-based chemical imaging reveals plumage patterns in a 150 million year old early bird. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1024.	1.6	55
53	Why LiFePO ₄ is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26369-26377.	1.3	52
54	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2'-bipyridine)(CN) ₄] ²⁻ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4238-4249.	1.3	52

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55	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018, 98, .	1.1	49
56	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. <i>Physical Review Letters</i> , 2018, 120, 133203.	2.9	48
57	Combined elemental analysis of ancient glass beads by means of ion beam, portable XRF, and EPMA techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2199-2209.	1.9	47
58	Synchrotron imaging reveals bone healing and remodelling strategies in extinct and extant vertebrates. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140277.	1.5	47
59	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> , 2019, 141, 13676-13688.	6.6	47
60	Revealing Electronic Signatures of Lattice Oxygen Redox in Lithium Ruthenates and Implications for High-Energy Li-Ion Battery Material Designs. <i>Chemistry of Materials</i> , 2019, 31, 7864-7876.	3.2	47
61	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> , 2015, 17, 8901-8912.	1.3	45
62	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , 2018, 11, 2496-2508.	15.6	45
63	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. <i>Materials Today</i> , 2020, 35, 87-98.	8.3	45
64	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> , 2011, 66, 681-690.	1.5	44
65	Elemental characterisation of melanin in feathers via synchrotron X-ray imaging and absorption spectroscopy. <i>Scientific Reports</i> , 2016, 6, 34002.	1.6	44
66	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> , 2014, 140, 034107.	1.2	43
67	Oxidation and crystal field effects in uranium. <i>Physical Review B</i> , 2015, 92, .	1.1	43
68	Direct Observation of Methylmercury and Auranofin Binding to Selenocysteine in Thioredoxin Reductase. <i>Inorganic Chemistry</i> , 2020, 59, 2711-2718.	1.9	43
69	Ligand manipulation of charge transfer excited state relaxation and spin crossover in $[\text{Fe}(\text{2,2}'\text{-bipyridine})_2(\text{CN})_2]$. <i>Structural Dynamics</i> , 2017, 4, 044030.	0.9	41
70	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-Ray Emission Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 364-372.	7.2	41
71	Unveiling the critical role of the Mn dopant in a $\text{NiFe}(\text{OH})_2$ catalyst for water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17471-17476.	5.2	41
72	Towards controlling the reversibility of anionic redox in transition metal oxides for high-energy Li-ion positive electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 2322-2334.	15.6	41

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73	Soft X-ray spectroscopy with transition-edge sensors at Stanford Synchrotron Radiation Lightsource beamline 10-1. <i>Review of Scientific Instruments</i> , 2019, 90, 113101.	0.6	40
74	Rethinking the Minamata Tragedy: What Mercury Species Was Really Responsible?. <i>Environmental Science & Technology</i> , 2020, 54, 2726-2733.	4.6	40
75	Structural changes correlated with magnetic spin state isomorphism in the S ₂ state of the Mn ₄ CaO ₅ cluster in the oxygen-evolving complex of photosystem II. <i>Chemical Science</i> , 2016, 7, 5236-5248.	3.7	39
76	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017, 230, 22-28.	2.6	39
77	X-ray Emission Spectroscopy as an <i>in Situ</i> Diagnostic Tool for X-ray Crystallography of Metalloproteins Using an X-ray Free-Electron Laser. <i>Biochemistry</i> , 2018, 57, 4629-4637.	1.2	39
78	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> , 2014, 194, 57-65.	0.8	37
79	Leaf metallome preserved over 50 million years. <i>Metallomics</i> , 2014, 6, 774-782.	1.0	35
80	Self-Doping and Electrical Conductivity in Spinel Oxides: Experimental Validation of Doping Rules. <i>Chemistry of Materials</i> , 2014, 26, 1867-1873.	3.2	35
81	Photon-in photon-out hard X-ray spectroscopy at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 612-620.	1.0	35
82	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> , 2017, 23, 14760-14768.	1.7	35
83	Operando Study of Thermal Oxidation of Monolayer MoS ₂ . <i>Advanced Science</i> , 2021, 8, 2002768.	5.6	35
84	Performance of a polycapillary half lens as focussing and collecting optic—a comparison. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 669.	1.6	32
85	3D Micro PIXE—a new technique for depth-resolved elemental analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1260.	1.6	31
86	K ² Valence to Core X-ray Emission Studies of Cu(I) Binding Proteins with Mixed Methionine and Histidine Coordination. Relevance to the Reactivity of the M- and H-sites of Peptidylglycine Monooxygenase. <i>Inorganic Chemistry</i> , 2016, 55, 3431-3439.	1.9	30
87	Pheomelanin pigment remnants mapped in fossils of an extinct mammal. <i>Nature Communications</i> , 2019, 10, 2250.	5.8	30
88	X-ray Absorption Spectroscopy Investigations of Copper(II) Coordination in the Human Amyloid β Peptide. <i>Inorganic Chemistry</i> , 2019, 58, 6294-6311.	1.9	30
89	Charge and Spin-State Characterization of Cobalt Bis(<i>o</i> -dioxolene) Valence Tautomers Using Co K ² X-ray Emission and L-Edge X-ray Absorption Spectroscopies. <i>Inorganic Chemistry</i> , 2017, 56, 737-747.	1.9	29
90	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22651-22658.	1.3	28

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91	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> , 2015, 30, 627-634.	1.6	28
92	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> , 2018, 115, 5652-5657.	3.3	28
93	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> , 2019, 116, 2854-2859.	3.3	28
94	Mechanistic and Electronic Insights into a Working NiAu Single-Atom Alloy Ethanol Dehydrogenation Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 21567-21579.	6.6	28
95	In situ X-ray Raman spectroscopy of LiBH ₄ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5581.	1.3	27
96	Geometry of electromechanically active structures in Gadolinium - doped Cerium oxides. <i>AIP Advances</i> , 2016, 6, 055320.	0.6	27
97	Noninvasive Synchrotron-Based X-ray Raman Scattering Discriminates Carbonaceous Compounds in Ancient and Historical Materials. <i>Analytical Chemistry</i> , 2017, 89, 10819-10826.	3.2	27
98	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO ₂ to CO. <i>ACS Catalysis</i> , 2021, 11, 6499-6509.	5.5	27
99	A versatile Johansson-type tender x-ray emission spectrometer. <i>Review of Scientific Instruments</i> , 2020, 91, 033101.	0.6	26
100	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> , 2015, 200, 257-263.	0.8	25
101	Configurations in U	1.1	25
102	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> , 2015, 21, 17570-17573.	1.7	24
103	L-edge spectroscopy of dilute, radiation-sensitive systems using a transition-edge-sensor array. <i>Journal of Chemical Physics</i> , 2017, 147, 214201.	1.2	24
104	Secondary Fluorescence Enhancement in Confocal X-ray Microscopy Analysis. <i>Analytical Chemistry</i> , 2009, 81, 4946-4954.	3.2	23
105	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> , 2017, 2, 1183-1189.	8.8	23
106	Electronic structure changes upon lithium intercalation into graphite " Insights from ex situ and operando x-ray Raman spectroscopy. <i>Carbon</i> , 2019, 143, 371-377.	5.4	22
107	3D Micro-PIXE at atmospheric pressure: A new tool for the investigation of art and archaeological objects. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 264, 383-388.	0.6	21
108	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> , 2013, 27, 79-84.	1.5	21

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109	Covalency in oxidized uranium. <i>Physical Review B</i> , 2015, 92, .	1.1	21
110	Resolving structures of transition metal complex reaction intermediates with femtosecond EXAFS. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2660-2666.	1.3	21
111	Manipulating electron redistribution to achieve electronic pyroelectricity in molecular [FeCo] crystals. <i>Nature Communications</i> , 2021, 12, 4836.	5.8	21
112	[Ni ^{III} (OMe)]-mediated reductive activation of CO ₂ affording a Ni(I ⁺ -OCO) complex. <i>Chemical Science</i> , 2016, 7, 3640-3644.	3.7	20
113	Observation of Seeded Mn K _L ² Stimulated X-Ray Emission Using Two-Color X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2020, 125, 037404.	2.9	20
114	In situ X-ray diffraction of silicate liquids and glasses under dynamic and static compression to megabar pressures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11981-11986.	3.3	20
115	Solvation structures of protons and hydroxide ions in water. <i>Journal of Chemical Physics</i> , 2013, 138, 154506.	1.2	19
116	Towards characterization of photo-excited electron transfer and catalysis in natural and artificial systems using XFELs. <i>Faraday Discussions</i> , 2016, 194, 621-638.	1.6	19
117	Separate measurement of the 5f _{5/2} and 5f _{7/2} unoccupied density of states of UO ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 232, 100-104.	0.8	19
118	EXAFS as a probe of actinide oxide formation in the tender X-ray regime. <i>Surface Science</i> , 2020, 698, 121607.	0.8	19
119	Distinct Surface and Bulk Thermal Behaviors of LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Materials as a Function of State of Charge. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11643-11656.	4.0	19
120	Observation of 5f intermediate coupling in uranium x-ray emission spectroscopy. <i>Journal of Physics Communications</i> , 2020, 4, 015013.	0.5	19
121	Focus characterization at an X-ray free-electron laser by coherent scattering and speckle analysis. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 599-605.	1.0	18
122	Operando Observation of Chemical Transformations of Iridium Oxide During Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 1371-1379.	2.5	18
123	Sulfur K _L ² X-ray emission spectroscopy: comparison with sulfur K-edge X-ray absorption spectroscopy for speciation of organosulfur compounds. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4500-4508.	1.3	18
124	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> , 2016, 149, 275-283.	3.0	17
125	Application of FEFF analyses to actinide 5f systems. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	17
126	Calcium-Uranyl-Carbonato Species Kinetically Limit U(VI) Reduction by Fe(II) and Lead to U(V)-Bearing Ferrihydrite. <i>Environmental Science & Technology</i> , 2020, 54, 6021-6030.	4.6	17

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127	Short-lived metal-centered excited state initiates iron-methionine photodissociation in ferrous cytochrome c. <i>Nature Communications</i> , 2021, 12, 1086.	5.8	17
128	Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering. <i>Chemical Science</i> , 2021, 12, 3713-3725.	3.7	17
129	Characterization of a Dynamic $\text{Y}_2\text{Ir}_2\text{O}_7$ Catalyst during the Oxygen Evolution Reaction in Acid. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1751-1760.	1.5	17
130	Local Structure of Sulfur Vacancies on the Basal Plane of Monolayer MoS_2 . <i>ACS Nano</i> , 2022, 16, 6725-6733.	7.3	17
131	Three-dimensional imaging of aerosol particles with scanning proton microprobe in a confocal arrangement. <i>Applied Physics Letters</i> , 2008, 93, 094104.	1.5	16
132	Cascade L -shell soft-x-ray emission as incident x-ray photons are tuned across the ionization threshold. <i>Physical Review A</i> , 2011, 83, .	1.0	16
133	Using N-Terminal Coordination of Cu(II) and Ni(II) to Isolate the Coordination Environment of Cu(I) and Cu(II) Bound to His13 and His14 in Amyloid- β (42). <i>Inorganic Chemistry</i> , 2019, 58, 15138-15154.	1.9	16
134	Resonant Inelastic X-ray Scattering Calculations of Transition Metal Complexes Within a Simplified Time-Dependent Density Functional Theory Framework. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3031-3038.	2.3	16
135	Reference-free x-ray fluorescence analysis of an ancient Chinese ceramic. <i>X-Ray Spectrometry</i> , 2008, 37, 462-465.	0.9	15
136	Quantitative analysis in confocal micro-PIXE—general concept and layered materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 611.	1.6	15
137	The new external ion beam analysis setup at the Demokritos Tandem accelerator and first applications in cultural heritage. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 519-527.	0.6	15
138	Excited state charge distribution and bond expansion of ferrous complexes observed with femtosecond valence-to-core x-ray emission spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 074203.	1.2	15
139	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. <i>Geology</i> , 2015, 43, 1007-1010.	2.0	14
140	A Photochemically Generated Selenyl Free Radical Observed by High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2018, 57, 10867-10872.	1.9	14
141	Hot Branching Dynamics in a Light-Harvesting Iron Carbene Complex Revealed by Ultrafast X-ray Emission Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 372-380.	1.6	14
142	Probing Depth-Dependent Transition-Metal Redox of Lithium Nickel, Manganese, and Cobalt Oxides in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55865-55875.	4.0	14
143	High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy: An Analytical Method for Selenium Speciation. <i>Analytical Chemistry</i> , 2021, 93, 9235-9243.	3.2	14
144	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. <i>ACS Catalysis</i> , 2021, 11, 9904-9915.	5.5	14

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145	Resonant Raman scattering of polarized and unpolarized x-ray radiation from Mg, Al, and Si. <i>Physical Review A</i> , 2010, 81, .	1.0	13
146	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi _{0.045} Cu _{0.185} Fe _{0.265} Mn _{0.505} O ₂ Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11428-11435.	1.5	13
147	Femtosecond electronic structure response to high intensity XFEL pulses probed by iron X-ray emission spectroscopy. <i>Scientific Reports</i> , 2020, 10, 16837.	1.6	13
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