Dimosthenis Sokaras

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 193
 9,659
 46
 94

 papers
 citations
 h-index
 g-index

 207
 11,627
 8.9
 5.82

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
193	Electronic structure studies reveal 4f/5d mixing and its effect on bonding characteristics in Ce-imido and -oxo complexes <i>Chemical Science</i> , 2022 , 13, 1759-1773	9.4	2
192	Mercury L ^a High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy: A Versatile Speciation Probe for Mercury <i>Inorganic Chemistry</i> , 2022 ,	5.1	1
191	Characterization of a Dynamic Y2Ir2O7 Catalyst during the Oxygen Evolution Reaction in Acid. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1751-1760	3.8	2
190	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency Journal of Physical Chemistry Letters, 2022, 378-386	6.4	O
189	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution <i>Nature Materials</i> , 2022 ,	27	10
188	Unoccupied electronic structure of actinide dioxides. <i>Physical Review B</i> , 2022 , 105,	3.3	3
187	Generation of intense phase-stable femtosecond hard X-ray pulse pairs <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2119616119	11.5	1
186	Thorium model and weak 5f delocalization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 033205	2.9	
185	Effects of x-ray free-electron laser pulse intensity on the Mn K x-ray emission spectrum in photosystem II-A case study for metalloprotein crystals and solutions. <i>Structural Dynamics</i> , 2021 , 8, 064	3 02	2
184	Quantification of Ni-N-O Bond Angles and NO Activation by X-ray Emission Spectroscopy. <i>Inorganic Chemistry</i> , 2021 , 60, 736-744	5.1	3
183	Operando Study of Thermal Oxidation of Monolayer MoS. <i>Advanced Science</i> , 2021 , 8, 2002768	13.6	6
182	Effect of 3d/4p Mixing on 1s2p Resonant Inelastic X-ray Scattering: Electronic Structure of Oxo-Bridged Iron Dimers. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4569-4584	16.4	3
181	U M subshell X-ray emission spectroscopy of uranium dioxide: the effect of excitation energy. <i>MRS Advances</i> , 2021 , 6, 209-212	0.7	O
180	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	6.4	7
179	The Limitations of 5f Delocalization and Dispersion. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3882	2.6	2
178	Hg(II) Binding to Thymine Bases in DNA. <i>Inorganic Chemistry</i> , 2021 , 60, 7442-7452	5.1	1
177	Millisecond timescale reactions observed via X-ray spectroscopy in a 3D microfabricated fused silica mixer. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 1100-1113	2.4	O

(2020-2021)

176	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO2 to CO. <i>ACS Catalysis</i> , 2021 , 11, 6499-6509	13.1	6	
175	High Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy: An Analytical Method for Selenium Speciation. <i>Analytical Chemistry</i> , 2021 , 93, 9235-9243	7.8	4	
174	The X-ray emission of cerium oxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 246, 147007	1.7	4	
173	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	35.4	11	
172	Short-lived metal-centered excited state initiates iron-methionine photodissociation in ferrous cytochrome c. <i>Nature Communications</i> , 2021 , 12, 1086	17.4	6	
171	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021 , 13, 343-349	17.6	21	
170	Underlying simplicity of 5f unoccupied electronic structure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 043205	2.9	4	
169	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. <i>ACS Catalysis</i> , 2021 , 11, 9904-99	9153.1	1	
168	Manipulating electron redistribution to achieve electronic pyroelectricity in molecular [FeCo] crystals. <i>Nature Communications</i> , 2021 , 12, 4836	17.4	2	
167	Comment on Underlying simplicity of 5f unoccupied electronic structure[[J. Vac. Sci. Technol. A 39, 043205 (2021)]. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 066001	2.9	2	
166	Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering. <i>Chemical Science</i> , 2021 , 12, 3713-3725	9.4	9	
165	Sulfur KIX-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	3.6	9	
164	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	16.4	5	
163	Probing Depth-Dependent Transition-Metal Redox of Lithium Nickel, Manganese, and Cobalt Oxides in Li-Ion Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 55865-55875	9.5	6	
162	Towards the Quantification of 5f Delocalization. Applied Sciences (Switzerland), 2020, 10, 2918	2.6	5	
161	EXAFS as a probe of actinide oxide formation in the tender X-ray regime. Surface Science, 2020, 698, 12	1 <u>6</u> .87	10	
160	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	11.5	8	
159	Application of FEFF analyses to actinide 5f systems. <i>Journal of Vacuum Science and Technology A:</i> Vacuum, Surfaces and Films, 2020 , 38, 036001	2.9	10	

158	Reply to Comments on "Rethinking the Minamata Tragedy: What Mercury Species Was Really Responsible?". <i>Environmental Science & Environmental Science &</i>	10.3	1
157	Reply to Comments on "Rethinking the Minamata Tragedy: What Mercury Species Was Really Responsible?". <i>Environmental Science & Environmental Science &</i>	10.3	2
156	Probing Charge Ordering in Fractional Mixed-Valence Charge Density Wave Systems with Oriented HERFD-XANES Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16544-16552	3.8	1
155	Probing U 5f Covalency in Uranium Compounds through Oxidant 2p Bonding. <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 024711	1.5	4
154	Direct Observation of Methylmercury and Auranofin Binding to Selenocysteine in Thioredoxin Reductase. <i>Inorganic Chemistry</i> , 2020 , 59, 2711-2718	5.1	21
153	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, 0742	03 ³⁹	5
152	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. <i>Nature Communications</i> , 2020 , 11, 634	17.4	41
151	Distinct Surface and Bulk Thermal Behaviors of LiNiMnCoO Cathode Materials as a Function of State of Charge. <i>ACS Applied Materials & State of Charge and State of Cha</i>	9.5	8
150	Observation of 5f intermediate coupling in uranium x-ray emission spectroscopy. <i>Journal of Physics Communications</i> , 2020 , 4, 015013	1.2	12
149	Rethinking the Minamata Tragedy: What Mercury Species Was Really Responsible?. <i>Environmental Science & Environmental </i>	10.3	25
148	A versatile Johansson-type tender x-ray emission spectrometer. <i>Review of Scientific Instruments</i> , 2020 , 91, 033101	1.7	18
147	Calcium-Uranyl-Carbonato Species Kinetically Limit U(VI) Reduction by Fe(II) and Lead to U(V)-Bearing Ferrihydrite. <i>Environmental Science & Environmental Science & Environme</i>	10.3	11
146	KIX-ray Emission Spectroscopy as a Probe of Cu(I) Sites: Application to the Cu(I) Site in Preprocessed Galactose Oxidase. <i>Inorganic Chemistry</i> , 2020 , 59, 16567-16581	5.1	2
145	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	3.6	12
144	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118369	21.8	33
143	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	16.4	28
142	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. <i>Materials Today</i> , 2020 , 35, 87-98	21.8	23
141	Acidic Oxygen Evolution Reaction ActivityBtability Relationships in Ru-Based Pyrochlores. <i>ACS Catalysis</i> , 2020 , 10, 12182-12196	13.1	30

(2019-2020)

140	Observation of Seeded Mn Kistimulated X-Ray Emission Using Two-Color X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2020 , 125, 037404	7.4	7
139	Unveiling the critical role of the Mn dopant in a NiFe(OH)2 catalyst for water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17471-17476	13	10
138	Femtosecond electronic structure response to high intensity XFEL pulses probed by iron X-ray emission spectroscopy. <i>Scientific Reports</i> , 2020 , 10, 16837	4.9	5
137	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. <i>Nature Catalysis</i> , 2020 , 3, 743-753	36.5	71
136	Quantifying the Application of FEFF to f-derived Spectral Structure. MRS Advances, 2020, 5, 2631-2638	0.7	6
135	Solution Chemistry of Copper(II) Binding to Substituted 8-Hydroxyquinolines. <i>Inorganic Chemistry</i> , 2020 , 59, 13858-13874	5.1	3
134	Resolving structures of transition metal complex reaction intermediates with femtosecond EXAFS. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2660-2666	3.6	13
133	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> , 2019 , 31,	9.6	32
132	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	11.5	19
131	Visualizing sulfur with X-rays: From molecules to tissues. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019 , 194, 618-623	1	1
130	Fully Oxidized Nife Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019 , 9, 6027-6032	13.1	112
129	Pheomelanin pigment remnants mapped in fossils of an extinct mammal. <i>Nature Communications</i> , 2019 , 10, 2250	17.4	15
128	X-ray Absorption Spectroscopy Investigations of Copper(II) Coordination in the Human Amyloid [] Peptide. <i>Inorganic Chemistry</i> , 2019 , 58, 6294-6311	5.1	19
127	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	9.4	54
126	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi0.045Cu0.185Fe0.265Mn0.505O2 Sodium-Ion Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11428-11435	3.8	10
125	Separate measurement of the 5f5/2 and 5f7/2 unoccupied density of states of UO2. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019 , 232, 100-104	1.7	14
124	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> , 2019 , 123, 6114-6120	3.8	9
123	Electronic Structure of Naturally Occurring Aromatic Carbon. <i>Energy & Description</i> 2019, 33, 2099-2105	4.1	2

122	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, 13676-1	13688	31
121	NpSe : a Binary Chalcogenide Containing Modulated Selenide Chains and Ambiguous-Valent Metal. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16130-16133	16.4	4
120	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	1.7	25
119	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-(4-16). <i>Inorganic Chemistry</i> , 2019 , 58, 15138-15154	5.1	7
118	A high-throughput energy-dispersive tender X-ray spectrometer for shot-to-shot sulfur measurements. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 629-634	2.4	10
117	Nature of cobalt species during the in situ sulfurization of Co(Ni)Mo/AlO hydrodesulfurization catalysts. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 811-818	2.4	2
116	Diagram, valence-to-core, and hypersatellite KIX-ray transitions in metallic chromium. <i>X-Ray Spectrometry</i> , 2019 , 48, 351-359	0.9	5
115	Identification of the active complex for CO oxidation over single-atom Ir-on-MgAl2O4 catalysts. <i>Nature Catalysis</i> , 2019 , 2, 149-156	36.5	144
114	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	10.4	13
113	Operando Observation of Chemical Transformations of Iridium Oxide During Photoelectrochemical Water Oxidation. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1371-1379	6.1	14
112	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. <i>Nano Letters</i> , 2018 , 18, 3241-3249	11.5	163
111	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2'-bipyridine)(CN)]. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4238-4249	3.6	41
110	Soft X-Ray Second Harmonic Generation as an Interfacial Probe. <i>Physical Review Letters</i> , 2018 , 120, 0239	99.14	33
109	Depth-Dependent Redox Behavior of LiNi0.6Mn0.2Co0.2O2. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A696-A704	3.9	84
108	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. <i>Physical Review Letters</i> , 2018 , 120, 133203	7.4	29
107	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 311-317	8.3	153
106	Targeted Ligand-Exchange Chemistry on Cesium Lead Halide Perovskite Quantum Dots for High-Efficiency Photovoltaics. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10504-10513	16.4	208
105	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	16.4	50

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104	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7851-7859	16.4	184
103	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> , 2018 , 57, 4629-4637	3.2	27
102	Carbon Core Electron Spectra of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 5730-5734	2.8	9
101	Morphological and chemical evidence for cyclic bone growth in a fossil hyaena. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 2062-2069	3.7	4
100	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018 , 1,	5.4	84
99	Structures of the intermediates of Kok's photosynthetic water oxidation clock. <i>Nature</i> , 2018 , 563, 421-4	13 5.4	261
98	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	5.1	10
97	Two-photon absorption of soft X-ray free electron laser radiation by graphite near the carbon K-absorption edge. <i>Chemical Physics Letters</i> , 2018 , 703, 112-116	2.5	7
96	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	11.5	19
95	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018 , 98,	3.3	34
94	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. <i>Energy and Environmental Science</i> , 2018 , 11, 2496-250	ე ફ 5·4	34
93	Operando investigation of Au-MnOx thin films with improved activity for the oxygen evolution reaction. <i>Electrochimica Acta</i> , 2017 , 230, 22-28	6.7	32
92	Drop-on-demand sample delivery for studying biocatalysts in action at X-ray free-electron lasers. <i>Nature Methods</i> , 2017 , 14, 443-449	21.6	107
91	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5780-5784	16.4	89
90	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	20.1	17
89	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017 , 12, 744-749	28.7	828
88	Metalloprotein entatic control of ligand-metal bonds quantified by ultrafast x-ray spectroscopy. <i>Science</i> , 2017 , 356, 1276-1280	33.3	86
87	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, 14760-147	68 ⁸	28

86	Ligand manipulation of charge transfer excited state relaxation and spin crossover in [Fe(2,2'-bipyridine)(CN)]. <i>Structural Dynamics</i> , 2017 , 4, 044030	3.2	38
85	Charge and Spin-State Characterization of Cobalt Bis(o-dioxolene) Valence Tautomers Using Co K X-ray Emission and L-Edge X-ray Absorption Spectroscopies. <i>Inorganic Chemistry</i> , 2017 , 56, 737-747	5.1	19
84	Systematic Structure Property Relationship Studies in Palladium-Catalyzed Methane Complete Combustion. ACS Catalysis, 2017, 7, 7810-7821	13.1	110
83	Noninvasive Synchrotron-Based X-ray Raman Scattering Discriminates Carbonaceous Compounds in Ancient and Historical Materials. <i>Analytical Chemistry</i> , 2017 , 89, 10819-10826	7.8	19
82	Local vs Nonlocal States in FeTiO Probed with 1s2pRIXS: Implications for Photochemistry. <i>Inorganic Chemistry</i> , 2017 , 56, 10882-10892	5.1	6
81	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 5399-5409	13.1	88
80	L-edge spectroscopy of dilute, radiation-sensitive systems using a transition-edge-sensor array. Journal of Chemical Physics, 2017 , 147, 214201	3.9	19
79	Soft X-ray absorption spectroscopy investigation of the surface chemistry and treatments of copper indium gallium diselenide (CIGS). <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 390-397	6.4	
78	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. <i>Chemical Science</i> , 2017 , 8, 515-523	9.4	79
77	Structure of photosystem II and substrate binding at room temperature. <i>Nature</i> , 2016 , 540, 453-457	50.4	260
76	Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in Solvated [Co(terpy)_{2}]^{2+}. <i>Physical Review Letters</i> , 2016 , 117, 013002	7.4	65
75	Elemental characterisation of melanin in feathers via synchrotron X-ray imaging and absorption spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 34002	4.9	36
74	Towards characterization of photo-excited electron transfer and catalysis in natural and artificial systems using XFELs. <i>Faraday Discussions</i> , 2016 , 194, 621-638	3.6	13
73	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	6.4	13
72	[Ni(OMe)]-mediated reductive activation of CO affording a Ni(EOCO) complex. <i>Chemical Science</i> , 2016 , 7, 3640-3644	9.4	15
71	On the valence fluctuation in the early actinide metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016 , 207, 14-18	1.7	7
70	Geometry of electromechanically active structures in Gadolinium - doped Cerium oxides. <i>AIP Advances</i> , 2016 , 6, 055320	1.5	22
69	KLValence 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> , 2016 , 55, 3431-9	5.1	21

(2015-2016)

68	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> , 2016 , 7, 5236-5248	9.4	32
67	Hard X-Ray Photon-in/Photon-out Spectroscopy: Instrumentation, Theory and Applications 2016 , 125-15	53	7
66	Probing 5f-state configurations in URu2Si2 with U LIII-edge resonant x-ray emission spectroscopy. <i>Physical Review B</i> , 2016 , 94,	3.3	18
65	Identification of highly active Fe sites in (Ni,Fe)OOH for electrocatalytic water splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1305-13	16.4	1553
64	Indications of radiation damage in ferredoxin microcrystals using high-intensity X-FEL beams. Journal of Synchrotron Radiation, 2015 , 22, 225-38	2.4	95
63	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	2.4	18
62	Photon-in photon-out hard X-ray spectroscopy at the Linac Coherent Light Source. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 612-20	2.4	30
61	Revealing and suppressing surface Mn(II) formation of Na0.44MnO2 electrodes for Na-ion batteries. <i>Nano Energy</i> , 2015 , 16, 186-195	17.1	98
60	In situ scanning micro-XRF analyses of gilded bronze figurines at the National Museum of Damascus. <i>Journal of Analytical Atomic Spectrometry</i> , 2015 , 30, 1787-1798	3.7	9
59	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	3.7	26
58	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, 8901-12	3.6	31
57	Hard X-rays in Boft 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	1.7	18
56	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. <i>Geology</i> , 2015 , 43, 1007-1010	5	12
55	Why LiFePO4 is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26369-77	3.6	46
54	Covalency in oxidized uranium. <i>Physical Review B</i> , 2015 , 92,	3.3	18
53	Oxidation and crystal field effects in uranium. <i>Physical Review B</i> , 2015 , 92,	3.3	35
52	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, 17570-3	4.8	21
51	Chemically directing d-block heterometallics to nanocrystal surfaces as molecular beacons of surface structure. <i>Chemical Science</i> , 2015 , 6, 6295-6304	9.4	1

50	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , 2014 , 11, 545-8	21.6	118
49	Tracking excited-state charge and spin dynamics in iron coordination complexes. <i>Nature</i> , 2014 , 509, 345	5 -8 0.4	319
48	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	3.9	33
47	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22651-8	3.6	19
46	Leaf metallome preserved over 50 million years. <i>Metallomics</i> , 2014 , 6, 774-82	4.5	31
45	High-resolution x-ray-emission study of 1s4p and 1s3d two-electron photoexcitations in Kr. <i>Physical Review A</i> , 2014 , 90,	2.6	3
44	Structure, Redox Chemistry, and Interfacial Alloy Formation in Monolayer and Multilayer Cu/Au(111) Model Catalysts for CO2 Electroreduction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7954-	7 ³ 9 ⁸ 1	58
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