

Artur Braun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5742332/publications.pdf>

Version: 2024-02-01

158
papers

4,120
citations

94415

37
h-index

149686

56
g-index

172
all docs

172
docs citations

172
times ranked

5769
citing authors

#	ARTICLE	IF	CITATIONS
1	“In rust we trust”: Hematite – the prospective inorganic backbone for artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013, 6, 407-425.	30.8	216
2	Advantages of soft X-ray absorption over TEM-EELS for solid carbon studies – a comparative study on diesel soot with EELS and NEXAFS. <i>Carbon</i> , 2005, 43, 117-124.	10.3	145
3	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16870-16875.	3.1	137
4	In situ ambient pressure XPS observation of surface chemistry and electronic structure of α -Fe ₂ O ₃ and β -Fe ₂ O ₃ nanoparticles. <i>Applied Surface Science</i> , 2018, 455, 1019-1028.	6.1	126
5	A nanocomposite photoelectrode made of 2.2 eV band gap copper tungstate (CuWO ₄) and multi-wall carbon nanotubes for solar-assisted water splitting. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3166-3176.	7.1	113
6	Electron Microscopy Investigation of Carbonaceous Particulate Matter Generated by Combustion of Fossil Fuels. <i>Energy & Fuels</i> , 2005, 19, 1644-1651.	5.1	101
7	Differential effects of the particle core and organic extract of diesel exhaust particles. <i>Toxicology Letters</i> , 2012, 208, 262-268.	0.8	89
8	Evolution of structural properties of iron oxide nano particles during temperature treatment from 250 °C – 900 °C: X-ray diffraction and Fe K-shell pre-edge X-ray absorption study. <i>Current Applied Physics</i> , 2012, 12, 817-825.	2.4	80
9	Size-range analysis of diesel soot with ultra-small angle X-ray scattering. <i>Combustion and Flame</i> , 2004, 137, 63-72.	5.2	79
10	Effect of Thermal Treatment on the Crystallographic, Surface Energetics, and Photoelectrochemical Properties of Reactively Cosputtered Copper Tungstate for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25490-25495.	3.1	75
11	X-ray scattering and spectroscopy studies on diesel soot from oxygenated fuel under various engine load conditions. <i>Carbon</i> , 2005, 43, 2588-2599.	10.3	71
12	Wood smoke particles from different combustion phases induce similar pro-inflammatory effects in a co-culture of monocyte and pneumocyte cell lines. <i>Particle and Fibre Toxicology</i> , 2012, 9, 45.	6.2	69
13	Radiation damage from EELS and NEXAFS in diesel soot and diesel soot extracts. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 170, 42-48.	1.7	68
14	X-ray scattering and adsorption studies of thermally oxidized glassy carbon. <i>Journal of Non-Crystalline Solids</i> , 1999, 260, 1-14.	3.1	65
15	Tailoring the morphology of WO ₃ films with substitutional cation doping: Effect on the photoelectrochemical properties. <i>Electrochimica Acta</i> , 2010, 55, 7780-7787.	5.2	65
16	Nitrogen Doping of TiO ₂ Photocatalyst Forms a Second e _g State in the Oxygen 1s NEXAFS Pre-edge. <i>Journal of Physical Chemistry C</i> , 2010, 114, 516-519.	3.1	65
17	Hydrothermal Treatment of a Hematite Film Leads to Highly Oriented Faceted Nanostructures with Enhanced Photocurrents. <i>Chemistry of Materials</i> , 2011, 23, 2051-2061.	6.7	63
18	Comparative NEXAFS Study on Soot Obtained from an Ethylene/Air Flame, a Diesel Engine, and Graphite. <i>Energy & Fuels</i> , 2006, 20, 187-194.	5.1	62

#	ARTICLE	IF	CITATIONS
19	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in LaFe_2O_3 upon Electrochemical Oxidation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5619-5625.	3.1	62
20	Artificial Photosynthesis for Solar Fuels – an Evolving Research Field within AMPEA, a Joint Programme of the European Energy Research Alliance. <i>Green</i> , 2013, 3, .	0.4	62
21	Covalent Si-O Bonding Enables Enhanced Photoelectrochemical Performance of $\text{Cu}_2\text{S}/\text{Fe}_2\text{O}_3$ Heterojunction for Water Splitting. <i>Small</i> , 2021, 17, e2100320.	10.0	62
22	Carbon speciation in airborne particulate matter with C (1s) NEXAFS spectroscopy. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1059.	2.1	58
23	The nature of the nonmetal-metal transition in Li_xCoO_2 oxide. <i>Solid State Ionics</i> , 2014, 263, 110-118.	2.7	56
24	A study of diesel PM with X-ray microspectroscopy. <i>Fuel</i> , 2004, 83, 997-1000.	6.4	55
25	Observation of Oxygen Vacancy Filling under Water Vapor in Ceramic Proton Conductors in Situ with Ambient Pressure XPS. <i>Chemistry of Materials</i> , 2013, 25, 4690-4696.	6.7	53
26	Functionalization of Nanostructured Hematite Thin-Film Electrodes with the Light-Harvesting Membrane Protein Cytochrome <i>b</i> 6/f Yields an Enhanced Photocurrent. <i>Advanced Functional Materials</i> , 2012, 22, 490-502.	14.9	48
27	Photonic light trapping in self-organized all-oxide microspheroids impacts photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2014, 7, 2680-2688.	30.8	47
28	Experimental neutron scattering evidence for proton polaron in hydrated metal oxide proton conductors. <i>Nature Communications</i> , 2017, 8, 15830.	12.8	45
29	Proton diffusivity in the $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ proton conductor. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 471-475.	2.9	41
30	Formation of an electron hole doped film in the LaFe_2O_3 photoanode upon electrochemical oxidation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1443-1451.	2.8	40
31	Spectroscopic assessment of the role of hydrogen in surface defects, in the electronic structure and transport properties of TiO_2 , ZnO and SnO_2 nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1417-1430.	2.8	40
32	Light Harvesting Proteins for Solar Fuel Generation in Bioengineered Photoelectrochemical Cells. <i>Current Protein and Peptide Science</i> , 2014, 15, 374-384.	1.4	40
33	Impact of ferrocene on the structure of diesel exhaust soot as probed with wide-angle X-ray scattering and C(1s) NEXAFS spectroscopy. <i>Carbon</i> , 2006, 44, 2904-2911.	10.3	39
34	Redox dynamics of sulphur with Ni/GDC anode during SOFC operation at mid- and low-range temperatures: An operando S K-edge XANES study. <i>Journal of Power Sources</i> , 2013, 240, 448-457.	7.8	39
35	Strain-induced perpendicular magnetic anisotropy in ultrathin Ni films on $\text{Cu}_3\text{Au}(001)$. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 171, 16-28.	2.3	38
36	Analytical solution to Matthews' and Blakeslee's critical dislocation formation thickness of epitaxially grown thin films. <i>Journal of Crystal Growth</i> , 2002, 241, 231-234.	1.5	37

#	ARTICLE	IF	CITATIONS
37	Pre-edges in oxygen (1s) x-ray absorption spectra: A spectral indicator for electron hole depletion and transport blocking in iron perovskites. Applied Physics Letters, 2009, 94, .	3.3	37
38	Effect of lattice volume and compressive strain on the conductivity of BaCeY-oxide ceramic proton conductors. Journal of the European Ceramic Society, 2011, 31, 2657-2661.	5.7	37
39	Photochemically induced decarboxylation in diesel soot extracts. Atmospheric Environment, 2006, 40, 5837-5844.	4.1	36
40	Evidence for Al doping in lithium sublattice of LiFePO ₄ . Solid State Ionics, 2015, 270, 33-38.	2.7	36
41	Evolution of BET internal surface area in glassy carbon powder during thermal oxidation. Carbon, 2002, 40, 375-382.	10.3	35
42	Toward Distinguishing Woodsmoke and Diesel Exhaust in Ambient Particulate Matter. Environmental Science & Technology, 2008, 42, 374-380.	10.0	35
43	Maze Solving Using Fatty Acid Chemistry. Langmuir, 2014, 30, 9251-9255.	3.5	35
44	Hematite@NiO/Ni(OH) ₂ heterostructure photoanodes with high electrocatalytic current density and charge storage capacity. Physical Chemistry Chemical Physics, 2013, 15, 12648.	2.8	34
45	Growth of Nanoparticles and Microparticles by Controlled Reaction-Diffusion Processes. Langmuir, 2015, 31, 1828-1834.	3.5	33
46	The effect of annealing temperature on the structural, optical, and electrical properties of CdS films. Journal of Materials Research, 2010, 25, 189-196.	2.6	31
47	Exponential growth of electrochemical double layer capacitance in glassy carbon during thermal oxidation. Carbon, 2003, 41, 759-765.	10.3	30
48	Electrochemical in situ reaction cell for X-ray scattering, diffraction and spectroscopy. Journal of Synchrotron Radiation, 2003, 10, 320-325.	2.4	30
49	A facile nonpolar organic solution process of a nanostructured hematite photoanode with high efficiency and stability for water splitting. Journal of Materials Chemistry A, 2016, 4, 2821-2825.	10.3	30
50	Molecular Origin and Electrochemical Influence of Capacitive Surface States on Iron Oxide Photoanodes. Journal of Physical Chemistry C, 2016, 120, 3250-3258.	3.1	29
51	Carbon Speciation of Diesel Exhaust and Urban Particulate Matter NIST Standard Reference Materials with C(1s) NEXAFS Spectroscopy. Environmental Science & Technology, 2007, 41, 173-178.	10.0	28
52	Hydrostatic pressure decreases the proton mobility in the hydrated BaZr _{0.9} Y _{0.1} O ₃ proton conductor. Applied Physics Letters, 2010, 97, 041902.	3.3	27
53	Effect of Compressive Strain on the Raman Modes of the Dry and Hydrated BaCe _{0.8} Y _{0.2} O ₃ Proton Conductor. Journal of Physical Chemistry C, 2011, 115, 24021-24027.	3.1	27
54	Observation of Substrate Orientation-Dependent Oxygen Defect Filling in Thin WO ₃ /TiO ₂ Pulsed Laser-Deposited Films with in Situ XPS at High Oxygen Pressure and Temperature. Chemistry of Materials, 2012, 24, 3473-3480.	6.7	27

#	ARTICLE	IF	CITATIONS
55	Nanostructured hematite thin films for photoelectrochemical water splitting. <i>Physica B: Condensed Matter</i> , 2018, 535, 67-71.	2.7	26
56	A model for the film growth in samples with two moving reaction frontiers – an application and extension of the unreacted-core model. <i>Chemical Engineering Science</i> , 2000, 55, 5273-5282.	3.8	25
57	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.	1.7	25
58	The electronic, chemical and electrocatalytic processes and intermediates on iron oxide surfaces during photoelectrochemical water splitting. <i>Catalysis Today</i> , 2016, 260, 72-81.	4.4	25
59	Maze solving using temperature-induced Marangoni flow. <i>RSC Advances</i> , 2015, 5, 48563-48568.	3.6	24
60	Lithium K(1s) synchrotron NEXAFS spectra of lithium-ion battery cathode, anode and electrolyte materials. <i>Journal of Power Sources</i> , 2007, 170, 173-178.	7.8	23
61	Molecular speciation of sulfur in solid oxide fuel cell anodes with X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2008, 183, 564-570.	7.8	23
62	X-ray absorption investigation of the valence state and electronic structure of $\text{La}_{1-x}\text{Ca}_x\text{CoO}_3$ in comparison with $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ and $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$. <i>Journal of Solid State Chemistry</i> , 2011, 184, 3163-3171.	2.9	22
63	Low-temperature roll-to-roll coating procedure of dye-sensitized solar cell photoelectrodes on flexible polymer-based substrates. <i>Semiconductor Science and Technology</i> , 2011, 26, 045007.	2.0	21
64	Valence changes of manganese and praseodymium in $\text{Pr}_{1-x}\text{Sr}_x\text{Mn}_{1-y}\text{Ni}_y\text{O}_3$ perovskites upon cation substitution as determined with XANES and ELNES. <i>Physica B: Condensed Matter</i> , 2008, 403, 87-94.	2.7	20
65	Yttrium and hydrogen superstructure and correlation of lattice expansion and proton conductivity in the $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$ proton conductor. <i>Applied Physics Letters</i> , 2009, 95, 224103.	3.3	20
66	A dip coating process for large area silicon-doped high performance hematite photoanodes. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 043109.	2.0	20
67	Proton diffusivity in spark plasma sintered $\text{BaCe}_{0.8}\text{Y}_{0.2}\text{O}_3$: In-situ combination of quasi-elastic neutron scattering and impedance spectroscopy. <i>Solid State Ionics</i> , 2013, 252, 2-6.	2.7	20
68	Electronic origin of difference in discharge curve between Li_xCoO_2 and Na_xCoO_2 cathodes. <i>Solid State Ionics</i> , 2015, 271, 15-27.	2.7	20
69	Iron Resonant Photoemission Spectroscopy on Anodized Hematite Points to Electron Hole Doping during Anodization. <i>ChemPhysChem</i> , 2012, 13, 2937-2944.	2.1	19
70	Between photocatalysis and photosynthesis: Synchrotron spectroscopy methods on molecules and materials for solar hydrogen generation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 93-105.	1.7	18
71	Probing the mystery of Liesegang band formation: revealing the origin of self-organized dual-frequency micro and nanoparticle arrays. <i>Soft Matter</i> , 2016, 12, 8367-8374.	2.7	18
72	Hematite photoanode co-functionalized with self-assembling melanin and C-phycocyanin for solar water splitting at neutral pH. <i>Catalysis Today</i> , 2017, 284, 44-51.	4.4	18

#	ARTICLE	IF	CITATIONS
73	In situ anomalous small angle X-ray scattering and absorption on an operating rechargeable lithium ion battery cell. <i>Electrochemistry Communications</i> , 2001, 3, 136-141.	4.7	17
74	Electron hole-phonon interaction, correlation of structure, and conductivity in single crystal $\text{La}_{0.9}\text{Sr}_{0.1}\text{FeO}_3$. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	17
75	Correlation of O (1s) and Fe (2p) near edge x-ray absorption fine structure spectra and electrical conductivity of $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$. <i>Applied Physics Letters</i> , 2009, 95, 174108.	3.3	17
76	Surface and Bulk Oxygen Vacancy Defect States near the Fermi Level in 125 nm WO_3/TiO_2 (110) Films: A Resonant Valence Band Photoemission Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16411-16417.	3.1	17
77	Effect of the titania substitution on the electronic structure and transport properties of FSS-made Fe_2O_3 nanoparticles for hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 347-355.	7.8	17
78	Solution processed transparent nanoparticulate ZnO thin film electrode for photoelectrochemical water oxidation. <i>RSC Advances</i> , 2014, 4, 23562-23570.	3.6	17
79	Electronic structure of pristine and Ni-substituted $\text{La}_x\text{Fe}_{1-x}\text{O}_3$ from near edge x-ray absorption fine structure experiments and first-principles simulations. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
80	Origin of chemical shift of manganese in lithium battery electrode materials—a comparison of hard and soft X-ray techniques. <i>Journal of Power Sources</i> , 2002, 112, 231-235.	7.8	16
81	Extractable Organic Carbon and its Differentiation by Polarity in Diesel Exhaust, Wood Smoke, and Urban Particulate Matter. <i>Aerosol Science and Technology</i> , 2009, 43, 714-729.	3.1	16
82	Small-angle neutron scattering and cyclic voltammetry study on electrochemically oxidized and reduced pyrolytic carbon. <i>Electrochimica Acta</i> , 2004, 49, 1105-1112.	5.2	14
83	Entanglement of charge transfer, hole doping, exchange interaction, and octahedron tilting angle and their influence on the conductivity of $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$: A combination of x-ray spectroscopy and diffraction. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	14
84	SAXS chord length distribution analysis and porosity estimation of activated and non-activated glassy carbon. <i>Journal of Non-Crystalline Solids</i> , 2003, 321, 89-95.	3.1	13
85	Multi-scale Microstructure Characterization of Solid Oxide Fuel Cell Assemblies With Ultra Small-Angle X-Ray Scattering. <i>Advanced Engineering Materials</i> , 2009, 11, 495-501.	3.5	13
86	Function and Electronic Structure of the SnO_2 Buffer Layer between the Fe_2O_3 Water Oxidation Photoelectrode and the Transparent Conducting Oxide Current Collector. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9158-9168.	3.1	13
87	A versatile salt evaporation reactor system for SOFC operando studies on anode contamination and degradation with impedance spectroscopy. <i>Journal of Power Sources</i> , 2011, 196, 3134-3140.	7.8	12
88	Synthesis of monocrystalline zinc oxide microrods by wet chemical method for light confinement applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 2118-2123.	2.7	12
89	Electronic Origin of Conductivity Changes and Isothermal Expansion of Ta- and Ti-Substituted $\text{La}_{1/2}\text{Sr}_{1/2}\text{Fe-Oxide}$ in Oxidative and Reducing Atmosphere. <i>Chemistry of Materials</i> , 2012, 24, 1529-1535.	6.7	12
90	Influence of anodization time on the surface modifications on Fe_2O_3 photoanode upon anodization. <i>Journal of Materials Research</i> , 2016, 31, 1580-1587.	2.6	12

#	ARTICLE	IF	CITATIONS
91	Morphology, structural and optical properties of iron oxide thin film photoanodes in photoelectrochemical cell: Effect of electrochemical oxidation. <i>Physica B: Condensed Matter</i> , 2016, 480, 91-94.	2.7	12
92	Density Functional Theory study of Cu doped {0001} and {01 $\overline{1}$ 0} surfaces of hematite for water splitting. <i>MRS Advances</i> , 2018, 3, 669-678.	0.9	12
93	Analytical solution to a growth problem with two moving boundaries. <i>Applied Mathematical Modelling</i> , 2003, 27, 47-52.	4.2	11
94	Ostwald ripening of cobalt precipitates in silica aerogels? An ultra-small-angle X-ray scattering study. <i>Journal of Applied Crystallography</i> , 2005, 38, 132-138.	4.5	10
95	Evolution of electrochemical interfaces in solid oxide fuel cells (SOFC): a Ni and Zr resonant anomalous ultra-small-angle X-ray scattering study with elemental and spatial resolution across the cell assembly. <i>RSC Advances</i> , 2014, 4, 4676-4690.	3.6	10
96	Cooperative origin of proton pair diffusivity in yttrium substituted barium zirconate. <i>Communications Physics</i> , 2020, 3, .	5.3	10
97	Nuclear Resonance Vibrational Spectroscopy: A Modern Tool to Pinpoint Site-Specific Cooperative Processes. <i>Crystals</i> , 2021, 11, 909.	2.2	10
98	Optimizing the Proton Conductivity with the Isokinetic Temperature in Perovskite-type Proton Conductors According to Meyer-Neldel Rule. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	10
99	Quantitative model for anisotropy and reorientation thickness of the magnetic moment in thin epitaxially strained metal films. <i>Physica B: Condensed Matter</i> , 2006, 373, 346-354.	2.7	9
100	Iron-resonant valence band photoemission and oxygen near edge x-ray absorption fine structure study on La $_{1-x}$ Sr $_x$ Fe $_0.75$ Ni $_0.25$ O $_3$. <i>Applied Physics Letters</i> , 2010, 97, 124101.	3.3	9
101	Exploring the stability and electronic properties of Zn-doped hematite surfaces for photoelectrochemical water splitting. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109159.	4.0	9
102	Cu $_2$ S/BiVO $_4$ Heterostructure Photoanode with Extended Wavelength Range for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15890-15898.	3.1	9
103	Nanoscale calcium bismuth mixed oxide with enhanced photocatalytic performance under visible light. <i>Applied Catalysis A: General</i> , 2010, 382, 190-196.	4.3	8
104	Hematite nanostructuring using electrohydrodynamic lithography. <i>Applied Surface Science</i> , 2014, 305, 62-66.	6.1	8
105	Biological Components and Bioelectronic Interfaces of Water Splitting Photoelectrodes for Solar Hydrogen Production. <i>Chemistry - A European Journal</i> , 2015, 21, 4188-4199.	3.3	8
106	Understanding the formation of aligned, linear arrays of Ag nanoparticles. <i>RSC Advances</i> , 2016, 6, 28388-28392.	3.6	8
107	Hole and Protonic Polarons in Perovskites. <i>Chimia</i> , 2019, 73, 936.	0.6	8
108	Deformation of diesel soot aggregates as a function of pellet pressure: A study with ultra-small-angle x-ray scattering. <i>Journal of Applied Physics</i> , 2005, 98, 073513.	2.5	7

#	ARTICLE	IF	CITATIONS
109	Soft X-ray absorption spectroscopy and resonant inelastic X-ray scattering spectroscopy below 100 eV: probing first-row transition-metal M -edges in chemical complexes. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 614-619.	2.4	7
110	Charge transfer between photosynthetic proteins and hematite in bio-hybrid photoelectrodes for solar water splitting cells. <i>Nano Convergence</i> , 2015, 2, .	12.1	7
111	Correlation between transport properties and lithium extraction/insertion mechanism in Fe-site substituted phosphoolvine. <i>Solid State Ionics</i> , 2016, 288, 184-192.	2.7	7
112	Circular economy: national and global policy overview. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 301-304.	4.1	7
113	Some comments on soot surface area evolution during air oxidation as evaluated by small angle X-ray scattering and CO ₂ adsorption. <i>Carbon</i> , 2006, 44, 1313-1315.	10.3	6
114	Correlation of conductivity and angle integrated valence band photoemission characteristics in single crystal iron perovskites for 300K T and 800K: Comparison of surface and bulk sensitive methods. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 56-62.	1.7	6
115	Highly porous activated glassy carbon film sandwich structure for electrochemical energy storage in ultracapacitor applications: Study of the porous film structure and gradient. <i>Journal of Materials Research</i> , 2010, 25, 1532-1540.	2.6	6
116	High temperature oxygen near edge x-ray absorption fine structure valence band spectra and conductivity of LaFe ₃ /4Ni ₁ /4O ₃ from 300 to 773 K. <i>Applied Physics Letters</i> , 2011, 99, 202112.	3.3	6
117	High-temperature high pressure cell for neutron-scattering studies. <i>High Pressure Research</i> , 2012, 32, 471-481.	1.2	6
118	Differences in Electrophysical and Gas Sensing Properties of Flame Spray Synthesized Fe ₂ O ₃ and Fe ₂ O ₃ and Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (\pm /i> 6401-6411.	0.9	6
119	Copper Tungstate (CuWO ₄) Based Materials for Photoelectrochemical Hydrogen Production. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1446, 31.	0.1	6
120	Ab Initio Studies of Bimetallic-Doped {0001} Hematite Surface for Enhanced Photoelectrochemical Water Splitting. <i>Catalysts</i> , 2021, 11, 940.	3.5	6
121	Depth profile analysis of a cycled lithium ion manganese oxide battery electrode via the valence state of manganese, with soft X-ray emission spectroscopy. <i>Journal of Power Sources</i> , 2010, 195, 7644-7648.	7.8	5
122	A self-assembled, multicomponent water oxidation device. <i>Chemical Communications</i> , 2016, 52, 2940-2943.	4.1	5
123	Reaction Model for Fluorination of Uranium Dioxide Using Improved Unreacted Shrinking Core Model for Expanding Spherical Particles. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 823-827.	1.3	4
124	Correlation of high temperature x-ray photoemission valence band spectra and conductivity in strained LaSrFeNi oxide on SrTiO ₃ (110). <i>Applied Physics Letters</i> , 2009, 95, 022107.	3.3	4
125	Advanced and In Situ Analytical Methods for Solar Fuel Materials. <i>Topics in Current Chemistry</i> , 2015, 371, 253-324.	4.0	4
126	Impact of crystal structure singularity on transport and electrochemical properties of Li _x (Li _y Fe _z V _{1-y-z})O ₂ electrode material for lithium batteries. <i>Functional Materials Letters</i> , 2016, 09, 1641006.	1.2	4

#	ARTICLE	IF	CITATIONS
127	From inert gas to fertilizer, fuel and fine chemicals: N ₂ reduction and fixation. <i>Catalysis Today</i> , 2022, 387, 186-196.	4.4	4
128	Two-process model for the atmospheric weathering, oxidation and ageing of diesel soot. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	3
129	Self-organised microdots formed by dewetting in a highly volatile liquid. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 201-209.	9.4	3
130	Conductivity and oxygen reduction activity changes in lanthanum strontium manganite upon low-level chromium substitution. <i>Solid State Ionics</i> , 2014, 266, 19-24.	2.7	3
131	Electronic structure origin of conductivity and oxygen reduction activity changes in low-level Cr-substituted (La,Sr)MnO ₃ . <i>Journal of Chemical Physics</i> , 2015, 143, 114705.	3.0	3
132	CONVERSION OF THICKNESS DATA OF THIN FILMS WITH VARIABLE LATTICE PARAMETER FROM MONOLAYERS TO ANGSTROMS: AN APPLICATION OF THE EPITAXIAL BAIN PATH. <i>Surface Review and Letters</i> , 2003, 10, 889-894.	1.1	2
133	Comment on "Effects of Native Organic Material and Water on Sorption Properties of Reference Diesel Soot". <i>Environmental Science & Technology</i> , 2009, 43, 5158-5159.	10.0	2
134	Deuterium Tracer Experiments Prove the Thiophenic Hydrogen Involvement During the Initial Step of Thiophene Hydrodesulfurization. <i>Catalysis Letters</i> , 2010, 138, 224-230.	2.6	2
135	The effect of solvent and electric field on the size distribution of iron oxide microdots: Exploitation of self-assembly strategies for photoelectrodes. <i>Journal of Materials Research</i> , 2011, 26, 254-261.	2.6	2
136	Highly Electrochemically Stable Morphology of Mesoscale Co ₃ O ₄ Flowerlike Oriented Aggregate (FLOA) for Electrocatalytic Water Splitting. <i>Journal of the Electrochemical Society</i> , 2017, 164, H526-H536.	2.9	2
137	Observation of Potential-Induced Hydration on the Surface of Ceramic Proton Conductors Using <i>In Situ</i> Near-Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2928-2933.	4.6	2
138	2013 ESS Science Symposium: Neutrons for Future Energy Strategies. <i>Neutron News</i> , 2014, 25, 6-7.	0.2	1
139	Solar Photoelectrochemical Water Splitting with Bioconjugate and Bio-Hybrid Electrodes. , 2015, , 125-147.		1
140	Protons and the hydrogen economy. <i>MRS Energy & Sustainability</i> , 2017, 4, 1.	3.0	1
141	Shortest Path Finding in Mazes by Active and Passive Particles. <i>Emergence, Complexity and Computation</i> , 2018, , 401-408.	0.3	1
142	Solar energy and the circular economy: An introduction. <i>MRS Energy & Sustainability</i> , 2021, 8, 1.	3.0	1
143	Just for us?. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1327-1328.	2.4	1
144	Circular economy: national and global policy. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 299-299.	4.1	1

#	ARTICLE	IF	CITATIONS
145	Aerosol-Assisted Deposition for TiO ₂ Immobilization on Photocatalytic Fibrous Filters for VOC Degradation. <i>Frontiers in Chemistry</i> , 2022, 10, .	3.6	1
146	Comment on "Studies on nanoporous glassy carbon as a new electrochemical capacitor material [Y. Wen, G. Cao, Y. Yang, J. Power Sources 148 (2005) 121-128]. <i>Journal of Power Sources</i> , 2006, 160, 762-763.	7.8	0
147	Characterisation of Mixed Conducting La-Sr-Fe Perovskites for Application in Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007, 7, 1025-1031.	0.5	0
148	ALS Users Meeting and Workshops. <i>Synchrotron Radiation News</i> , 2010, 23, 2-14.	0.8	0
149	2010 ALS Users' Meeting and Workshops. <i>Synchrotron Radiation News</i> , 2011, 24, 2-9.	0.8	0
150	Functional Relationships between Structure and Transport in the BZY and BCY Proton Conductors. <i>ECS Meeting Abstracts</i> , 2012, , .	0.0	0
151	Meeting Report: Exploratory Workshop on Soft X-rays and Electrochemical Energy Storage and Converters. <i>Synchrotron Radiation News</i> , 2013, 26, 36-38.	0.8	0
152	Water oxidation with holes: what we learn from operando "synchrotron" studies (Conference) Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 462		
153	Swiss team discovers how protons move through fuel cell. <i>Fuel Cells Bulletin</i> , 2017, 2017, 14.	0.1	0
154	"Thou Shalt Not Make Unto Thee Any Graven Image" Some Remarks on X-ray Scattering and Materials Science. <i>Microscopy and Microanalysis</i> , 2018, 24, 526-529.	0.4	0
155	Swiss Stakeholder Workshop for the SUNRISE H2020 FET-Flagship Project. <i>Chimia</i> , 2019, 73, 952-956.	0.6	0
156	Water Splitting: Covalent Si-O Bonding Enables Enhanced Photoelectrochemical Performance of Cu ₂ S/Fe ₂ O ₃ Heterojunction for Water Splitting (<i>Small</i> 30/2021). <i>Small</i> , 2021, 17, 2170154.	10.0	0
157	Assessment of the Electronic Structure of Photo-electrodes with X-Ray and Electron Spectroscopy. , 2015, , 297-321.		0
158	Chapter 1 Structure and Transport Properties in Ceramic Fuel Cells (SOFC), Components, and Materials. , 2016, , 1-58.		0