## Jan Pieter Glatzel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/733358/publications.pdf

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231 papers

14,718 citations

18482 62 h-index 22166 113 g-index

243 all docs 243 docs citations

times ranked

243

13669 citing authors

#	Article	IF	CITATIONS
1	The Structure of the First Coordination Shell in Liquid Water. Science, 2004, 304, 995-999.	12.6	1,287
2	High resolution 1s core hole X-ray spectroscopy in 3d transition metal complexes—electronic and structural information. Coordination Chemistry Reviews, 2005, 249, 65-95.	18.8	830
3	X-ray damage to the Mn4Ca complex in single crystals of photosystem II: A case study for metalloprotein crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12047-12052.	7.1	585
4	Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II at Room Temperature. Science, 2013, 340, 491-495.	12.6	378
5	Absence of Mn-Centered Oxidation in the S2→ S3Transition: Implications for the Mechanism of Photosynthetic Water Oxidation. Journal of the American Chemical Society, 2001, 123, 7804-7820.	13.7	295
6	A combined in situ time-resolved UV–Vis, Raman and high-energy resolution X-ray absorption spectroscopy study on the deactivation behavior of Pt and PtSn propane dehydrogenation catalysts under industrial reaction conditions. Journal of Catalysis, 2010, 276, 268-279.	6.2	256
7	Biotic and abiotic products of Mn(II) oxidation by spores of the marineBacillus sp.strain SG-1. American Mineralogist, 2005, 90, 143-154.	1.9	237
8	The 1s x-ray absorption pre-edge structures in transition metal oxides. Journal of Physics Condensed Matter, 2009, 21, 104207.	1.8	231
9	Chemical State of Complex Uranium Oxides. Physical Review Letters, 2013, 111, 253002.	7.8	212
10	Activation of Oxygen on Gold/Alumina Catalysts: In Situ High-Energy-Resolution Fluorescence and Time-Resolved X-ray Spectroscopy. Angewandte Chemie - International Edition, 2006, 45, 4651-4654.	13.8	208
11	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. Nature Communications, 2014, 5, 4371.	12.8	206
12	X-ray emission spectroscopy. Photosynthesis Research, 2009, 102, 255-266.	2.9	197
13	High-Resolution Mn EXAFS of the Oxygen-Evolving Complex in Photosystem II:Â Structural Implications for the Mn4Ca Cluster. Journal of the American Chemical Society, 2005, 127, 14974-14975.	13.7	189
14	The Electronic Structure of Mn in Oxides, Coordination Complexes, and the Oxygen-Evolving Complex of Photosystem II Studied by Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2004, 126, 9946-9959.	13.7	177
15	The Nuclearity of the Active Site for Methane to Methanol Conversion in Cu-Mordenite: A Quantitative Assessment. Journal of the American Chemical Society, 2018, 140, 15270-15278.	13.7	177
16	Nanoflow electrospinning serial femtosecond crystallography. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1584-1587.	2.5	167
17	In Situ X-ray Absorption of Co/Mn/TiO2Catalysts for Fischerâ^'Tropsch Synthesis. Journal of Physical Chemistry B, 2004, 108, 16201-16207.	2.6	165
18	Identification of a spin-coupled Mo( <scp>iii</scp> ) in the nitrogenase iron–molybdenum cofactor. Chemical Science, 2014, 5, 3096-3103.	7.4	164

#	Article	IF	Citations
19	Identification of CO Adsorption Sites in Supported Pt Catalysts Using High-Energy-Resolution Fluorescence Detection X-ray Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 16162-16164.	2.6	163
20	Absence of Ce <sup>3+</sup> Sites in Chemically Active Colloidal Ceria Nanoparticles. ACS Nano, 2013, 7, 10726-10732.	14.6	160
21	Programmed Iron Oxide Nanoparticles Disintegration in Anaerobic Digesters Boosts Biogas Production. Small, 2014, 10, 2801-2808.	10.0	153
22	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.	7.1	144
23	Bulk-sensitive XAS characterization of light elements: from X-ray Raman scattering to X-ray Raman spectroscopy. Microchemical Journal, 2002, 71, 221-230.	4.5	141
24	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. Nature Methods, 2014, 11, 545-548.	19.0	140
25	X-ray Emission Spectroscopy To Study Ligand Valence Orbitals in Mn Coordination Complexes. Journal of the American Chemical Society, 2009, 131, 13161-13167.	13.7	135
26	Molybdenum Speciation and its Impact on Catalytic Activity during Methane Dehydroaromatization in Zeolite ZSMâ€5 as Revealed by Operando Xâ€Ray Methods. Angewandte Chemie - International Edition, 2016, 55, 5215-5219.	13.8	133
27	Reflections on hard X-ray photon-in/photon-out spectroscopy for electronic structure studies. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 17-25.	1.7	128
28	Generating Highly Active Partially Oxidized Platinum during Oxidation of Carbon Monoxide over Pt/Al <sub>2</sub> O <sub>3</sub> : In Situ, Timeâ€Resolved, and Highâ€Energyâ€Resolution Xâ€Ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 9260-9264.	13.8	119
29	Nearest-neighbor oxygen distances in liquid water and ice observed by x-ray Raman based extended x-ray absorption fine structure. Journal of Chemical Physics, 2007, 127, 174504.	3.0	118
30	Manganese Kβ X-ray Emission Spectroscopy As a Probe of Metal–Ligand Interactions. Inorganic Chemistry, 2011, 50, 8397-8409.	4.0	118
31	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.	7.1	113
32	Hard X-ray photon-in photon-out spectroscopy. Catalysis Today, 2009, 145, 294-299.	4.4	112
33	In Situ Characterization of the 5d Density of States of Pt Nanoparticles upon Adsorption of CO. Journal of the American Chemical Society, 2010, 132, 2555-2557.	13.7	111
34	Formation of Mercury Sulfide from Hg(II)–Thiolate Complexes in Natural Organic Matter. Environmental Science & Technology, 2015, 49, 9787-9796.	10.0	111
35	1s2p Resonant Inelastic X-ray Scattering of Iron Oxides. Journal of Physical Chemistry B, 2005, 109, 20751-20762.	2.6	108
36	Valence-to-Core X-ray Emission Spectroscopy Identification of Carbide Compounds in Nanocrystalline Cr Coatings Deposited from Cr(III) Electrolytes Containing Organic Substances. Journal of Physical Chemistry B, 2006, 110, 23192-23196.	2.6	104

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37	X-ray Raman spectroscopy at the oxygenKedge of water and ice: $\hat{a} \in f$ Implications on local structure models. Physical Review B, 2002, 66, .	3.2	101
38	Structural snapshots of the SCR reaction mechanism on Cu-SSZ-13. Chemical Communications, 2015, 51, 9227-9230.	4.1	101
39	Picosecond Timeâ€Resolved Xâ€Ray Emission Spectroscopy: Ultrafast Spinâ€State Determination in an Iron Complex. Angewandte Chemie - International Edition, 2010, 49, 5910-5912.	13.8	99
40	Site-Selective EXAFS in Mixed-Valence Compounds Using High-Resolution Fluorescence Detection:  A Study of Iron in Prussian Blue. Inorganic Chemistry, 2002, 41, 3121-3127.	4.0	95
41	Mn K-Edge XANES and Kβ XES Studies of Two Mnâ^'Oxo Binuclear Complexes: Investigation of Three Different Oxidation States Relevant to the Oxygen-Evolving Complex of Photosystem II. Journal of the American Chemical Society, 2001, 123, 7031-7039.	13.7	94
42	Electronic Structure of Sulfur Studied by X-ray Absorption and Emission Spectroscopy. Analytical Chemistry, 2009, 81, 6516-6525.	6.5	93
43	Five-element Johann-type x-ray emission spectrometer with a single-photon-counting pixel detector. Review of Scientific Instruments, 2011, 82, 065107.	1.3	93
44	Structure and Orientation of the Mn4Ca Cluster in Plant Photosystem II Membranes Studied by Polarized Range-extended X-ray Absorption Spectroscopy*. Journal of Biological Chemistry, 2007, 282, 7198-7208.	3.4	91
45	Comment on "Energetics of Hydrogen Bond Network Rearrangements in Liquid Water". Science, 2005, 308, 793a-793a.	12.6	90
46	Spin-state studies with XES and RIXS: From static to ultrafast. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 166-171.	1.7	87
47	Valence to Core Xâ€ray Emission Spectroscopy. Advanced Materials, 2014, 26, 7730-7746.	21.0	87
48	Examination of the influence of La promotion on Ni state in hydrotalcite-derived catalysts under CO2 methanation reaction conditions: Operando X-ray absorption and emission spectroscopy investigation. Applied Catalysis B: Environmental, 2018, 232, 409-419.	20.2	87
49	Carbon K-edge X-ray Raman spectroscopy supports simple, yet powerful description of aromatic hydrocarbons and asphaltenes. Chemical Physics Letters, 2003, 369, 184-191.	2.6	85
50	Catalysts at work: From integral to spatially resolved X-ray absorption spectroscopy. Catalysis Today, 2009, 145, 267-278.	4.4	85
51	Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. Journal of Physical Chemistry B, 2016, 120, 1158-1168.	2.6	85
52	Spectroscopic characterization of microscopic hydrogen-bonding disparities in supercritical water. Journal of Chemical Physics, 2005, 123, 154503.	3.0	79
53	Direct Detection of Oxygen Ligation to the Mn <sub>4</sub> Ca Cluster of Photosystem II by Xâ€ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2010, 49, 800-803.	13.8	78
54	$\hat{K}^2$ -Detected XANES of Framework-Substituted FeZSM-5 Zeolites. Journal of Physical Chemistry B, 2004, 108, 10002-10011.	2.6	77

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55	Metal–Ligand Covalency of Iron Complexes from High-Resolution Resonant Inelastic X-ray Scattering. Journal of the American Chemical Society, 2013, 135, 17121-17134.	13.7	75
56	Biogenesis of Mercury–Sulfur Nanoparticles in Plant Leaves from Atmospheric Gaseous Mercury. Environmental Science & Enviro	10.0	75
57	In Vivo Formation of HgSe Nanoparticles and Hg–Tetraselenolate Complex from Methylmercury in Seabirds—Implications for the Hg–Se Antagonism. Environmental Science & Echnology, 2021, 55, 1515-1526.	10.0	75
58	Single Au Atom Doping of Silver Nanoclusters. ACS Nano, 2018, 12, 12751-12760.	14.6	74
59	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited [Fe(terpy) <sub>2</sub> ] <sup>2+</sup> . Journal of Physical Chemistry C, 2015, 119, 5888-5902.	3.1	72
60	Resonant X-ray spectroscopy to study K absorption pre-edges in 3d transition metal compounds. European Physical Journal: Special Topics, 2009, 169, 207-214.	2.6	70
61	Probing Longâ€Lived Plasmonicâ€Generated Charges in TiO <sub>2</sub> /Au by Highâ€Resolution Xâ€ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 5413-5416.	13.8	67
62	V oxidation state in Fe–Ti oxides by high-energy resolution fluorescence-detected X-ray absorption spectroscopy. Physics and Chemistry of Minerals, 2011, 38, 449-458.	0.8	65
63	Identification of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi>Dy</mml:mi></mml:mrow><mml:mrow><mn 033001.<="" 125,="" 2020,="" as="" electron="" in="" letters,="" persistent="" phosphors.="" physical="" review="" td="" trap=""><td>nl:m<b>π</b>r8&gt;3<td>mnd#mn&gt;<m< td=""></m<></td></td></mn></mml:mrow></mml:msup></mml:mrow></mml:math>	nl:m <b>π</b> r8>3 <td>mnd#mn&gt;<m< td=""></m<></td>	mnd#mn> <m< td=""></m<>
64	High-resolution molybdenum K-edge X-ray absorption spectroscopy analyzed with time-dependent density functional theory. Physical Chemistry Chemical Physics, 2013, 15, 20911.	2.8	62
65	High energy-resolution x-ray spectroscopy at ultra-high dilution with spherically bent crystal analyzers of 0.5 m radius. Review of Scientific Instruments, 2017, 88, 013108.	1.3	62
66	The oxidation state of vanadium in titanomagnetite from layered basic intrusions. American Mineralogist, 2006, 91, 953-956.	1.9	61
67	Chemical composition and structural transformations of amorphous chromium coatings electrodeposited from Cr(III) electrolytes. Electrochimica Acta, 2010, 56, 145-153.	<b>5.2</b>	61
68	Direct study of the f-electron configuration in lanthanide systems. Journal of Analytical Atomic Spectrometry, 2011, 26, 1265.	3.0	61
69	Demethylation of Methylmercury in Bird, Fish, and Earthworm. Environmental Science & Eamp; Technology, 2021, 55, 1527-1534.	10.0	61
70	Visualizing a Catalyst at Work during the Ignition of the Catalytic Partial Oxidation of Methane. Journal of Physical Chemistry C, 2009, 113, 3037-3040.	3.1	60
71	Hard x-ray emission spectroscopy: a powerful tool for the characterization of magnetic semiconductors. Semiconductor Science and Technology, 2014, 29, 023002.	2.0	60
72	Unravelling the Different Reaction Pathways for Low Temperature CO Oxidation on Pt/CeO <sub>2</sub> and Pt/Al <sub>2</sub> O <sub>3</sub> by Spatially Resolved Structure–Activity Correlations. Journal of Physical Chemistry Letters, 2019, 10, 7698-7705.	4.6	58

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73	Electronic Structural Changes of Mn in the Oxygen-Evolving Complex of Photosystem II during the Catalytic Cycle. Inorganic Chemistry, 2013, 52, 5642-5644.	4.0	57
74	Structure, Bonding, and Stability of Mercury Complexes with Thiolate and Thioether Ligands from High-Resolution XANES Spectroscopy and First-Principles Calculations. Inorganic Chemistry, 2015, 54, 11776-11791.	4.0	57
75	Sulfur-Metal Orbital Hybridization in Sulfur-Bearing Compounds Studied by X-ray Emission Spectroscopy. Inorganic Chemistry, 2010, 49, 6468-6473.	4.0	56
76	Effect of alkalis on the Fe oxidation state and local environment in peralkaline rhyolitic glasses. American Mineralogist, 2012, 97, 468-475.	1.9	55
77	Chemical Sensitivity of KÎ <sup>2</sup> and Kα X-ray Emission from a Systematic Investigation of Iron Compounds. Inorganic Chemistry, 2020, 59, 12518-12535 Orbital hybridization and spin polarization in the resonant <mml:math< td=""><td>4.0</td><td>55</td></mml:math<>	4.0	55
78	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow></mml:mrow> photoexcitation of comml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mi>î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi< td=""><td>ations 3.2</td><td>54</td></mml:mi<></mml:mrow>	ations 3.2	54
79	mathvarian Preference towards Fivea F Coordination in Ti Silicalitea Jupon Molecular Adsorption, ChemPhysChem	2.1	53
80	Chemical Forms of Mercury in Human Hair Reveal Sources of Exposure. Environmental Science & Emp; Technology, 2016, 50, 10721-10729.	10.0	53
81	Cr local environment by valence-to-core X-ray emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2009, 24, 215-223.  X-ray linear dichroism in cubic compounds: The case of mml:math	3.0	52
82	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mtext>Cr</mml:mtext></mml:mrow><mml:mrow><mml:mrow><mml:mtext></mml:mtext></mml:mrow><mml:mrow><mml:mtext>MgAl</mml:mtext></mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:m< th=""><th>0.2</th><th>00</th></mml:m<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow>	0.2	00
83	Physical Review B, 2008, 78, .  Influence of the core hole ankî²emission following photoionization or orbital electron capture: A		49
84	Range-extended EXAFS at theLedge of rare earths using high-energy-resolution fluorescence detection: A study of La in LaOCI. Physical Review B, 2005, 72, .	3.2	49
85	The nature of the active site in the Fe-ZSM-5/N2O system studied by (resonant) inelastic X-ray scattering. Catalysis Today, 2007, 126, 127-134.	4.4	49
86	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. Journal of Physical Chemistry Letters, 2013, 4, 1972-1976.	4.6	49
87	Spatial imaging of carbon reactivity centers in Pd/C catalytic systems. Chemical Science, 2015, 6, 3302-3313.	7.4	49
88	Ligand Identification in Titanium Complexes Using X-ray Valence-to-Core Emission Spectroscopy. Inorganic Chemistry, 2010, 49, 8323-8332.	4.0	48
89	Intrinsic deviations in fluorescence yield detected x-ray absorption spectroscopy: the case of the transition metal L <sub>2,3</sub> edges. Journal of Physics Condensed Matter, 2012, 24, 452201.	1.8	47
90	Investigation of the valence electronic states of Ti(iv) in Ti silicalite-1 coupling X-ray emission spectroscopy and density functional calculations. Physical Chemistry Chemical Physics, 2011, 13, 19409.	2.8	46

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91	Direct evidence for an interdiffused intermediate layer in bi-magnetic core–shell nanoparticles. Nanoscale, 2014, 6, 11911-11920.	5.6	46
92	High-energy resolution X-ray absorption and emission spectroscopy reveals insight into unique selectivity of La-based nanoparticles for CO <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15803-15808.	7.1	46
93	High-resolution X-ray spectroscopy of rare events: a different look at local structure and chemistry. Journal of Synchrotron Radiation, 2001, 8, 199-203.	2.4	45
94	Thermal deformation of cryogenically cooled silicon crystals under intense X-ray beams: measurement and finite-element predictions ofÂtheÂsurface shape. Journal of Synchrotron Radiation, 2013, 20, 567-580.	2.4	45
95	High Energy Resolution X-ray Absorption Spectroscopy of Environmentally Relevant Lead(II) Compounds. Inorganic Chemistry, 2009, 48, 10748-10756.	4.0	43
96	Manipulating Mn–Mgk cation complexes to control the charge- and spin-state of Mn in GaN. Scientific Reports, 2012, 2, 722.	3.3	43
97	The role of Hartree–Fock exchange in the simulation of X-ray absorption spectra: A study of photoexcited. Chemical Physics Letters, 2013, 580, 179-184.	2.6	43
98	Inner-Shell Excitation Spectroscopy of Fused-Ring Aromatic Molecules by Electron Energy Loss and X-ray Raman Techniques. Journal of Physical Chemistry A, 2003, 107, 8512-8520.	2.5	42
99	Crystal-field excitations in NiO studied with hard x-ray resonant inelastic x-ray scattering at the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mtext> Ni</mml:mtext> <mml:mtext>   </mml:mtext> <mml:mi> K</mml:mi><td>&gt;<sup>3;</sup>/mml:m</td><td>ırðw&gt;</td></mml:mrow></mml:math>	> <sup>3;</sup> /mml:m	ırðw>
100	High-resolution structure of the photosynthetic Mn <sub>4</sub> Ca catalyst from X-ray spectroscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1139-1147.	4.0	42
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