

Jan Pieter Glatzel

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243
ext. papers

13,587
ext. citations

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L-index

#	Paper	IF	Citations
230	The structure of the first coordination shell in liquid water. <i>Science</i> , 2004 , 304, 995-9	33.3	1170
229	High resolution 1s core hole X-ray spectroscopy in 3d transition metal complexes—electronic and structural information. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 65-95	23.2	741
228	X-ray damage to the Mn4Ca complex in single crystals of photosystem II: a case study for metalloprotein crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12047-52	11.5	545
227	Simultaneous femtosecond X-ray spectroscopy and diffraction of photosystem II at room temperature. <i>Science</i> , 2013 , 340, 491-5	33.3	334
226	Absence of Mn-centered oxidation in the S(2) → S(3) transition: implications for the mechanism of photosynthetic water oxidation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7804-20	16.4	274
225	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. <i>Journal of Catalysis</i> , 2010 , 276, 268-279	7.3	212
224	Biotic and abiotic products of Mn(II) oxidation by spores of the marine <i>Bacillus</i> sp. strain SG-1. <i>American Mineralogist</i> , 2005 , 90, 143-154	2.9	196
223	Activation of oxygen on gold/alumina catalysts: in situ high-energy-resolution fluorescence and time-resolved X-ray spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4651-4	16.4	189
222	Taking snapshots of photosynthetic water oxidation using femtosecond X-ray diffraction and spectroscopy. <i>Nature Communications</i> , 2014 , 5, 4371	17.4	184
221	The 1s x-ray absorption pre-edge structures in transition metal oxides. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 104207	1.8	184
220	High-resolution Mn EXAFS of the oxygen-evolving complex in photosystem II: structural implications for the Mn4Ca cluster. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14974-5	16.4	174
219	X-ray emission spectroscopy. <i>Photosynthesis Research</i> , 2009 , 102, 255-66	3.7	160
218	Chemical state of complex uranium oxides. <i>Physical Review Letters</i> , 2013 , 111, 253002	7.4	159
217	The electronic structure of Mn in oxides, coordination complexes, and the oxygen-evolving complex of photosystem II studied by resonant inelastic X-ray scattering. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9946-59	16.4	157
216	Nanoflow electrospinning serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 1584-7		146
215	Identification of CO adsorption sites in supported Pt catalysts using high-energy-resolution fluorescence detection X-ray spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16162-4	3.4	146
214	In Situ X-ray Absorption of Co/Mn/TiO ₂ Catalysts for Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16201-16207	3.4	144

213	Room temperature femtosecond X-ray diffraction of photosystem II microcrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9721-6	11.5	135
212	Identification of a spin-coupled Mo(III) in the nitrogenase iron-molybdenum cofactor. <i>Chemical Science</i> , 2014 , 5, 3096-3103	9.4	131
211	Absence of Ce ³⁺ sites in chemically active colloidal ceria nanoparticles. <i>ACS Nano</i> , 2013 , 7, 10726-32	16.7	128
210	Bulk-sensitive XAS characterization of light elements: from X-ray Raman scattering to X-ray Raman spectroscopy. <i>Microchemical Journal</i> , 2002 , 71, 221-230	4.8	124
209	The Nuclearity of the Active Site for Methane to Methanol Conversion in Cu-Mordenite: A Quantitative Assessment. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15270-15278	16.4	123
208	X-ray emission spectroscopy to study ligand valence orbitals in Mn coordination complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13161-7	16.4	122
207	Accurate macromolecular structures using minimal measurements from X-ray free-electron lasers. <i>Nature Methods</i> , 2014 , 11, 545-8	21.6	118
206	Programmed iron oxide nanoparticles disintegration in anaerobic digesters boosts biogas production. <i>Small</i> , 2014 , 10, 2801-8, 2741	11	114
205	Reflections on hard X-ray photon-in/photon-out spectroscopy for electronic structure studies. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 188, 17-25	1.7	112
204	Generating highly active partially oxidized platinum during oxidation of carbon monoxide over Pt/Al ₂ O ₃ : in situ, time-resolved, and high-energy-resolution X-ray absorption spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9260-4	16.4	106
203	Manganese K α -ray emission spectroscopy as a probe of metal-ligand interactions. <i>Inorganic Chemistry</i> , 2011 , 50, 8397-409	5.1	105
202	Nearest-neighbor oxygen distances in liquid water and ice observed by x-ray Raman based extended x-ray absorption fine structure. <i>Journal of Chemical Physics</i> , 2007 , 127, 174504	3.9	103
201	Molybdenum Speciation and its Impact on Catalytic Activity during Methane Dehydroaromatization in Zeolite ZSM-5 as Revealed by Operando X-Ray Methods. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5215-9	16.4	103
200	In situ characterization of the 5d density of states of Pt nanoparticles upon adsorption of CO. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2555-7	16.4	102
199	Energy-dispersive X-ray emission spectroscopy using an X-ray free-electron laser in a shot-by-shot mode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19103-7	11.5	98
198	1s2p resonant inelastic X-ray scattering of iron oxides. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20751-5	5.2	96
197	Picosecond time-resolved X-ray emission spectroscopy: ultrafast spin-state determination in an iron complex. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5910-2	16.4	95
196	X-ray Raman spectroscopy at the oxygen K edge of water and ice: Implications on local structure models. <i>Physical Review B</i> , 2002 , 66,	3.3	94

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- 193 Hard X-ray photon-in photon-out spectroscopy. *Catalysis Today*, **2009**, 145, 294-299 5.3 88
- 192 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, 7198-208 5.4 87
- 191 Formation of Mercury Sulfide from Hg(II)-Thiolate Complexes in Natural Organic Matter. *Environmental Science & Technology*, **2015**, 49, 9787-96 10.3 85
- 190 Electronic Structure of Sulfur Studied by X-ray Absorption and Emission Spectroscopy. *Analytical Chemistry*, **2009**, 81, 6516-6525 7.8 84
- 189 Comment on "Energetics of hydrogen bond network rearrangements in liquid water". *Science*, **2005**, 308, 793; author reply 793 33.3 84
- 188 Site-selective EXAFS in mixed-valence compounds using high-resolution fluorescence detection: a study of iron in Prussian Blue. *Inorganic Chemistry*, **2002**, 41, 3121-7 5.1 84
- 187 Mn K-edge XANES and Kbeta XES studies of two Mn-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, 7031-9 16.4 84
- 186 Five-element Johann-type x-ray emission spectrometer with a single-photon-counting pixel detector. *Review of Scientific Instruments*, **2011**, 82, 065107 1.7 83
- 185 Carbon K-edge X-ray Raman spectroscopy supports simple, yet powerful description of aromatic hydrocarbons and asphaltenes. *Chemical Physics Letters*, **2003**, 369, 184-191 2.5 79
- 184 Spin-state studies with XES and RIXS: From static to ultrafast. *Journal of Electron Spectroscopy and Related Phenomena*, **2013**, 188, 166-171 1.7 74
- 183 Direct detection of oxygen ligation to the Mn(4)Ca cluster of photosystem II by X-ray emission spectroscopy. *Angewandte Chemie - International Edition*, **2010**, 49, 800-3 16.4 74
- 182 KEDetected XANES of Framework-Substituted FeZSM-5 Zeolites. *Journal of Physical Chemistry B*, **2004**, 108, 10002-10011 3.4 73
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- 180 Catalysts at work: From integral to spatially resolved X-ray absorption spectroscopy. *Catalysis Today*, **2009**, 145, 267-278 5.3 71
- 179 Spectroscopic characterization of microscopic hydrogen-bonding disparities in supercritical water. *Journal of Chemical Physics*, **2005**, 123, 154503 3.9 71
- 178 Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. *Journal of Physical Chemistry B*, **2016**, 120, 1158-68 3.4 70

177	Resonant X-ray spectroscopy to study K absorption pre-edges in 3d transition metal compounds. <i>European Physical Journal: Special Topics</i> , 2009 , 169, 207-214	2.3	65
176	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited [Fe(terpy)]. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5888-5902	3.8	62
175	Metal-ligand covalency of iron complexes from high-resolution resonant inelastic X-ray scattering. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17121-34	16.4	61
174	Probing long-lived plasmonic-generated charges in TiO ₂ /Au by high-resolution X-ray absorption spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5413-6	16.4	59
173	Examination of the influence of La promotion on Ni state in hydrotalcite-derived catalysts under CO ₂ methanation reaction conditions: Operando X-ray absorption and emission spectroscopy investigation. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 409-419	21.8	58
172	High-resolution molybdenum K-edge X-ray absorption spectroscopy analyzed with time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20911-20	3.6	58
171	Biogenesis of Mercury-Sulfur Nanoparticles in Plant Leaves from Atmospheric Gaseous Mercury. <i>Environmental Science & Technology</i> , 2018 , 52, 3935-3948	10.3	57
170	V oxidation state in Fe ^{III} oxides by high-energy resolution fluorescence-detected X-ray absorption spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2011 , 38, 449-458	1.6	57
169	Visualizing a Catalyst at Work during the Ignition of the Catalytic Partial Oxidation of Methane. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3037-3040	3.8	55
168	Electronic structural changes of Mn in the oxygen-evolving complex of photosystem II during the catalytic cycle. <i>Inorganic Chemistry</i> , 2013 , 52, 5642-4	5.1	53
167	Chemical composition and structural transformations of amorphous chromium coatings electrodeposited from Cr(III) electrolytes. <i>Electrochimica Acta</i> , 2010 , 56, 145-153	6.7	53
166	Sulfur-metal orbital hybridization in sulfur-bearing compounds studied by X-ray emission spectroscopy. <i>Inorganic Chemistry</i> , 2010 , 49, 6468-73	5.1	52
165	Direct study of the f-electron configuration in lanthanide systems. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 1265	3.7	50
164	High energy-resolution x-ray spectroscopy at ultra-high dilution with spherically bent crystal analyzers of 0.5 m radius. <i>Review of Scientific Instruments</i> , 2017 , 88, 013108	1.7	49
163	Orbital hybridization and spin polarization in the resonant 1s photoexcitations of Be ₂ O ₃ . <i>Physical Review B</i> , 2008 , 77,	3.3	49
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161	Single Au Atom Doping of Silver Nanoclusters. <i>ACS Nano</i> , 2018 , 12, 12751-12760	16.7	48
160	Hard x-ray emission spectroscopy: a powerful tool for the characterization of magnetic semiconductors. <i>Semiconductor Science and Technology</i> , 2014 , 29, 023002	1.8	47

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- 147 The oxidation state of vanadium in titanomagnetite from layered basic intrusions. *American Mineralogist*, **2006**, 91, 953-956 2.9 41
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- 142 Crystal-field excitations in NiO studied with hard x-ray resonant inelastic x-ray scattering at the Ni K edge. *Physical Review B*, **2008**, 78, 3.3 39

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140	High-resolution structure of the photosynthetic Mn ₄ Ca catalyst from X-ray spectroscopy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 1139-47; discussion 1147	5.8	38
139	Anisotropic valence->core x-ray fluorescence from a [Rh(en) ₃][Mn(N)(CN) ₅]·H ₂ O single crystal: Experimental results and density functional calculations. <i>Journal of Chemical Physics</i> , 2002 , 116, 2011-2019	3.9	38
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137	The role of Hartree-Fock exchange in the simulation of X-ray absorption spectra: A study of photoexcited. <i>Chemical Physics Letters</i> , 2013 , 580, 179-184	2.5	36
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135	Identification of Dy ^{3+} /Dy ^{2+} as Electron Trap in Persistent Phosphors. <i>Physical Review Letters</i> , 2020 , 125, 033001	7.4	36
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133	Strong K-edge magnetic circular dichroism observed in photon-in-photon-out spectroscopy. <i>Physical Review Letters</i> , 2010 , 105, 037202	7.4	34
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121	In Vivo Formation of HgSe Nanoparticles and Hg-Tetraselenolate Complex from Methylmercury in Seabirds-Implications for the Hg-Se Antagonism. <i>Environmental Science & Technology</i> , 2021 , 55, 1515-1526	10.3	30
120	Silica-supported Ti chloride tetrahydrofuranates, precursors of Ziegler-Natta catalysts. <i>Dalton Transactions</i> , 2013 , 42, 12706-13	4.3	29
119	Separation of two-electron photoexcited atomic processes near the inner-shell threshold. <i>Physical Review Letters</i> , 2009 , 102, 143001	7.4	29
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117	Multiplet splitting and valence-shell recoupling in the core-level 2p photoelectron spectrum of atomic Mn and of Mn compounds. <i>Physical Review A</i> , 2001 , 63,	2.6	29
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115	Element substitution by living organisms: the case of manganese in mollusc shell aragonite. <i>Scientific Reports</i> , 2016 , 6, 22514	4.9	29
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113	Molybdenum Speciation and its Impact on Catalytic Activity during Methane Dehydroaromatization in Zeolite ZSM-5 as Revealed by Operando X-Ray Methods. <i>Angewandte Chemie</i> , 2016 , 128, 5301-5305	3.6	28
112	Demethylation of Methylmercury in Bird, Fish, and Earthworm. <i>Environmental Science & Technology</i> , 2021 , 55, 1527-1534	10.3	28
111	Hard X-ray Photon-In Photon-Out Spectroscopy. <i>Synchrotron Radiation News</i> , 2009 , 22, 12-16	0.6	27
110	Generating Highly Active Partially Oxidized Platinum during Oxidation of Carbon Monoxide over Pt/Al ₂ O ₃ : In Situ, Time-Resolved, and High-Energy-Resolution X-Ray Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2008 , 120, 9400-9404	3.6	27
109	Chemical Forms of Mercury in Pyrite: Implications for Predicting Mercury Releases in Acid Mine Drainage Settings. <i>Environmental Science & Technology</i> , 2018 , 52, 10286-10296	10.3	27
108	HERFD XAS/ATR-FTIR batch reactor cell. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2164-70	3.6	26
107	High Resolution K Capture X-ray Fluorescence Spectroscopy: A New Tool for Chemical Characterization. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4926-4927	16.4	26
106	Unravelling the Different Reaction Pathways for Low Temperature CO Oxidation on Pt/CeO and Pt/AlO by Spatially Resolved Structure-Activity Correlations. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7698-7705	6.4	26

105	In situ XAS with high-energy resolution: The changing structure of platinum during the oxidation of carbon monoxide. <i>Catalysis Today</i> , 2009 , 145, 300-306	5.3	25
104	Spin-orbit sensitive hard x-ray probe of the occupied and unoccupied 5d density of states. <i>Physical Review B</i> , 2011 , 84,	3.3	25
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99	XAS and XES Techniques Shed Light on the Dark Side of Ziegler-Natta Catalysts: Active-Site Generation. <i>ChemCatChem</i> , 2015 , 7, 1432-1437	5.2	23
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