

Frank M F De Groot

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.

324
papers

21,801
citations

74
h-index

139
g-index

343
ext. papers

23,705
ext. citations

6.3
avg, IF

6.84
L-index

#	Paper	IF	Citations
324	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4207-4214	6.4	
323	Direct and real-time observation of hole transport dynamics in anatase TiO using X-ray free-electron laser.. <i>Nature Communications</i> , 2022 , 13, 2531	17.4	1
322	Insight into the Nature of the ZnOx Promoter during Methanol Synthesis. <i>ACS Catalysis</i> , 2022 , 12, 6628-6639	6.39	3
321	Temperature-Driven Self-Doping in Magnetite. <i>Physical Review Letters</i> , 2021 , 127, 186402	7.4	1
320	Self-Activated Catalytic Sites on Nanoporous Dilute Alloy for High-Efficiency Electrochemical Hydrogen Evolution. <i>ACS Nano</i> , 2021 , 15, 5333-5340	16.7	21
319	Femtosecond Charge Density Modulations in Photoexcited CuWO. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7329-7336	3.8	2
318	Spectroscopic characterization of electronic structures of ultra-thin single crystal LaSrMnO. <i>Scientific Reports</i> , 2021 , 11, 5250	4.9	4
317	Rational strain engineering of single-atom ruthenium on nanoporous MoS for highly efficient hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 1687	17.4	62
316	Unveiling interactions of non-metallic inclusions within advanced ultra-high-strength steel: A spectro-microscopic determination and first-principles elucidation. <i>Scripta Materialia</i> , 2021 , 197, 113791	5.6	2
315	2p x-ray absorption spectroscopy of 3d transition metal systems. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 249, 147061	1.7	12
314	In Situ X-ray Raman Scattering Spectroscopy of the Formation of Cobalt Carbides in a Co/TiO ₂ Fischer-Tropsch Synthesis Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 809-819	13.1	5
313	Tensor description of X-ray magnetic dichroism at the Fe L-edges of FeO. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 247-258	2.4	1
312	Detection of Spontaneous FeOOH Formation at the Hematite/Ni(Fe)OOH Interface During Photoelectrochemical Water Splitting by Operando X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2021 , 11, 12324-12335	13.1	2
311	Dynamic active-site generation of atomic iridium stabilized on nanoporous metal phosphides for water oxidation. <i>Nature Communications</i> , 2020 , 11, 2701	17.4	105
310	Origin of the high Seebeck coefficient of the misfit [Ca ₂ CoO ₃] _{0.62} [CoO ₂] cobaltate from site-specific valency and spin-state determinations. <i>Physical Review B</i> , 2020 , 101,	3.3	2
309	Multiscalar Investigation of FeVO ₄ Conversion Cathode for a Low Concentration Zn(CF ₃ SO ₃) ₂ Rechargeable Zn-Ion Aqueous Battery. <i>Batteries and Supercaps</i> , 2020 , 3, 619-630	5.6	8
308	Electronic structure investigation of GdNi using x-ray absorption, magnetic circular dichroism, and hard x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2020 , 101,	3.3	3

307	Damping of spinful excitons in LaCoO ₃ by thermal fluctuations: Theory and experiment. <i>Physical Review B</i> , 2020 , 101,	3.3	2
306	Possible absence of trimeron correlations above the Verwey temperature in Fe ₃ O ₄ . <i>Physical Review B</i> , 2020 , 101,	3.3	3
305	Many-Body Physics of Single and Double Spin-Flip Excitations in NiO. <i>Physical Review Letters</i> , 2020 , 124, 067202	7.4	3
304	Electronic parameters in cobalt-based perovskite-type oxides as descriptors for chemocatalytic reactions. <i>Nature Communications</i> , 2020 , 11, 652	17.4	28
303	Oxygen K-edge X-ray Absorption Spectra. <i>Chemical Reviews</i> , 2020 , 120, 4056-4110	68.1	109
302	Probing the local distortion of Fe sites in Fe ₃ O ₄ thin films using enhanced symmetry selection in XMLD. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
301	Saturation and self-absorption effects in the angle-dependent 2p3d resonant inelastic X-ray scattering spectra of Co. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 979-987	2.4	1
300	Direct observation of the electronic states of photoexcited hematite with ultrafast 2p3d X-ray absorption spectroscopy and resonant inelastic X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2685-2692	3.6	18
299	Identifying Electrocatalytic Sites of the Nanoporous CopperRuthenium Alloy for Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>ACS Energy Letters</i> , 2020 , 5, 192-199	20.1	115
298	Intramolecular crossover from unconventional diamagnetism to paramagnetism of palladium ions probed by soft X-ray magnetic circular dichroism. <i>Communications Chemistry</i> , 2020 , 3,	6.3	1
297	Deactivation of Cu-Exchanged Automotive-Emission NH ₃ -SCR Catalysts Elucidated with Nanoscale Resolution Using Scanning Transmission X-ray Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15610-15617	16.4	18
296	Charge-transfer effect in hard x-ray 1s and 2p photoemission spectra: LDA+DMFT and cluster-model analysis. <i>Physical Review B</i> , 2019 , 100,	3.3	7
295	Magnetic Contrast at Spin-Flip Excitations: An Advanced X-Ray Spectroscopy Tool to Study Magnetic-Ordering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36213-36220	9.5	6
294	X-Ray Absorption Near Edge Structure Spectroscopy of a Solid Catalyst using a Laboratory-Based Set-up. <i>ChemCatChem</i> , 2019 , 11, 1039-1044	5.2	22
293	Atomic-Scale Investigation of the Structural and Electronic Properties of CobaltIron Bimetallic FischerTropsch Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 7998-8011	13.1	21
292	Elucidating the K-Edge X-Ray Absorption Near-Edge Structure of Cobalt Carbide. <i>ChemCatChem</i> , 2019 , 11, 3042-3045	5.2	10
291	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 1743	17.4	260
290	Unconventional Charge Density Wave Order in the Pnictide Superconductor Ba(Ni _{1-x} Co _x) ₂ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 147601	7.4	9

289	3D nanoporous iridium-based alloy microwires for efficient oxygen evolution in acidic media. <i>Nano Energy</i> , 2019 , 59, 146-153	17.1	88
288	Coupled cluster study of the x-ray absorption spectra of formaldehyde derivatives at the oxygen, carbon, and fluorine K-edges. <i>Journal of Chemical Physics</i> , 2019 , 151, 064107	3.9	18
287	Facile Two-Step Synthesis of Delafossite CuFeO ₂ Photocathodes by Ultrasonic Spray Pyrolysis and Hybrid Microwave Annealing. <i>ChemPhotoChem</i> , 2019 , 3, 1238-1245	3.3	4
286	Dust absorption and scattering in the silicon K-edge. <i>Astronomy and Astrophysics</i> , 2019 , 627, A16	5.1	13
285	Interstellar dust along the line of sight of GX 3+1. <i>Astronomy and Astrophysics</i> , 2019 , 630, A143	5.1	8
284	Low-energy orbital excitations in strained LaCoO ₃ films. <i>Physical Review B</i> , 2019 , 100,	3.3	6
283	Noncollinear Ordering of the Orbital Magnetic Moments in Magnetite. <i>Physical Review Letters</i> , 2019 , 123, 207201	7.4	8
282	Measurement of f orbital hybridization in rare earths through electric dipole-octupole interference in x-ray absorption spectroscopy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
281	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
280	Modelling the properties of interstellar dust using the Si K-edge. <i>Proceedings of the International Astronomical Union</i> , 2019 , 15, 259-263	0.1	
279	Redox Behavior of Solid Solutions in the SrFe _{1-x} Cu _x O _{3-δ} System for Application in Thermochemical Oxygen Storage and Air Separation. <i>Energy Technology</i> , 2019 , 7, 131-139	3.5	12
278	Direct Observation of Cr 3d States in Ruby: Toward Experimental Mechanistic Evidence of Metal Chemistry. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4399-4413	2.8	25
277	Reversal in the Lattice Contraction of Fe ₂ O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9292-9301	3.8	14
276	Cobalt-to-vanadium charge transfer in polyoxometalate water oxidation catalysts revealed by 2p3d resonant inelastic X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4554-4562	3.6	11
275	1s2p Resonant Inelastic X-ray Scattering Magnetic Circular Dichroism as a probe for the local and non-local orbitals in CrO ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018 , 222, 74-87	1.7	12
274	Excitonic dispersion of the intermediate spin state in LaCoO ₃ revealed by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2018 , 98,	3.3	13
273	Capturing the Genesis of an Active Fischer-Tropsch Synthesis Catalyst with Operando X-ray Nanospectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11957-11962	16.4	28
272	1s2p RIXS Calculations for 3d Transition Metal Ions in Octahedral Symmetry. <i>Journal of Spectroscopy</i> , 2018 , 2018, 1-50	1.5	4

271	Quanty4RIXS: a program for crystal field multiplet calculations of RIXS and RIXS-MCD spectra using Quanty. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 899-905	2.4	6
270	Retraction: On the enzymatic activity of catalase: an iron L-edge X-ray absorption study of the active centre. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16294	3.6	
269	Single Au Atom Doping of Silver Nanoclusters. <i>ACS Nano</i> , 2018 , 12, 12751-12760	16.7	48
268	Insights into the Synthesis Mechanism of Ag Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28351-28361	3.8	16
267	Investigating the interstellar dust through the Fe K-edge. <i>Astronomy and Astrophysics</i> , 2018 , 609, A22	5.1	15
266	Electronic structure of PrMnNiO from x-ray photoemission, absorption and density functional theory. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 435603	1.8	3
265	Quantifying covalent interactions with resonant inelastic soft X-ray scattering: Case study of Ni ²⁺ aqua complex. <i>Chemical Physics Letters</i> , 2017 , 669, 196-201	2.5	4
264	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. <i>Nano Letters</i> , 2017 , 17, 794-799	11.5	64
263	Charge-Transfer Analysis of 2p3d Resonant Inelastic X-ray Scattering of Cobalt Sulfide and Halides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24919-24928	3.8	14
262	1s2p resonant inelastic X-ray scattering combined dipole and quadrupole analysis method. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 296-301	2.4	7
261	Sum rule distortions in fluorescence-yield x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2017 , 96,	3.3	10
260	Graphene Nanoreactors: Photoreduction of Prussian Blue in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22225-22233	3.8	8
259	Magnetic states at the surface of Fe ₂ O ₃ thin films doped with Ti, Zn, or Sn. <i>Physical Review B</i> , 2017 , 96,	3.3	9
258	Local vs Nonlocal States in FeTiO Probed with 1s2pRIXS: Implications for Photochemistry. <i>Inorganic Chemistry</i> , 2017 , 56, 10882-10892	5.1	6
257	In-Situ 2p3d Resonant Inelastic X-ray Scattering Tracking Cobalt Nanoparticle Reduction. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17450-17456	3.8	12
256	Absorption and scattering by interstellar dust in the silicon K-edge of GX 5-1. <i>Astronomy and Astrophysics</i> , 2017 , 599, A117	5.1	20
255	Soft x-ray absorption spectroscopy study of the electronic structures of the MnFe Prussian blue analogs (R _x B _y)Mn[3(x+2y)]/2[Fe(CN) ₆]H ₂ O. <i>Physical Review B</i> , 2017 , 96,	3.3	7
254	Coulomb Correlations Intertwined with Spin and Orbital Excitations in LaCoO ₃ . <i>Physical Review Letters</i> , 2017 , 119, 196402	7.4	23

253	Jahn-Teller distortion driven magnetic polarons in magnetite. <i>Nature Communications</i> , 2017 , 8, 15929	17.4	37
252	In situ X-ray absorption spectroscopy of transition metal based water oxidation catalysts. <i>Chemical Society Reviews</i> , 2017 , 46, 102-125	58.5	124
251	X-Ray Absorption with Transmission X-Ray Microscopes 2017 , 157-165		
250	High-Energy Resolution XAS 2017 , 229-236		
249	Robust Ferromagnetism of Chromium Nanoparticles Formed in Superfluid Helium. <i>Advanced Materials</i> , 2017 , 29, 1604277	24	13
248	Energetic, spatial, and momentum character of the electronic structure at a buried interface: The two-dimensional electron gas between two metal oxides. <i>Physical Review B</i> , 2016 , 93,	3.3	22
247	Characterisation, degradation and regeneration of luminescent Ag clusters in solution. <i>Nanoscale</i> , 2016 , 8, 19901-19909	7.7	32
246	Identification of the dominant photochemical pathways and mechanistic insights to the ultrafast ligand exchange of Fe(CO) ₅ to Fe(CO) ₄ EtOH. <i>Structural Dynamics</i> , 2016 , 3, 043204	3.2	42
245	Active phase distribution changes within a catalyst particle during Fischer-Tropsch synthesis as revealed by multi-scale microscopy. <i>Catalysis Science and Technology</i> , 2016 , 6, 4438-4449	5.5	34
244	CTM4DOC: electronic structure analysis from X-ray spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 1264-71	2.4	19
243	Mn and Co Charge and Spin Evolutions in LaMn _{1-x} Co _x O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8167-8174	3.8	27
242	Shrinking the Synchrotron: Tabletop Extreme Ultraviolet Absorption of Transition-Metal Complexes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3383-7	6.4	27
241	Distorted Tetrahedral Co in KH[CoWO] ₄ ·xH ₂ O Probed by 2p3d Resonant Inelastic X-ray Scattering. <i>Inorganic Chemistry</i> , 2016 , 55, 10152-10160	5.1	10
240	1s3p Resonant Inelastic X-ray Scattering of Cobalt Oxides and Sulfides. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24063-24069	3.8	17
239	High-resolution nonresonant x-ray Raman scattering study on rare earth phosphate nanoparticles. <i>New Journal of Physics</i> , 2015 , 17, 043041	2.9	5
238	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO) ₅ in solution. <i>Nature</i> , 2015 , 520, 78-81	5.4	211
237	Moment evolution across the ferromagnetic phase transition of giant magnetocaloric (Mn,Fe) ₂ (P,Si,B) compounds. <i>Physical Review B</i> , 2015 , 91,	3.3	22
236	Final-State Projection Method in Charge-Transfer Multiplet Calculations: An Analysis of Ti L-Edge Absorption Spectra. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13852-8	3.4	9

235	Iron 1s X-ray photoemission of Fe ₂ O ₃ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 203, 8-13	1.7	16
234	Resonant Inelastic X-ray Scattering of Molybdenum Oxides and Sulfides. <i>Journal of Physical Chemistry C</i> , 2015 , 150126100226006	3.8	16
233	Unraveling the Redox Behavior of a CoMoS Hydrodesulfurization Catalyst: A Scanning Transmission X-ray Microscopy Study in the Tender X-ray Range. <i>Journal of Physical Chemistry C</i> , 2015 , 150127105552002	3.8	6
232	Co Polyoxometalates and a Co ₃ O ₄ Thin Film Investigated by L-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4173-4179	3.8	36
231	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
230	Core and Valence Structures in K α -ray Emission Spectra of Chromium Materials. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22202-22210	3.8	11
229	Angular dependence of resonant inelastic x-ray scattering: a spherical tensor expansion. <i>Open Physics</i> , 2014 , 12,	1.3	8
228	X-ray Absorption Near-Edge Structure (XANES) Spectroscopy. <i>Reviews in Mineralogy and Geochemistry</i> , 2014 , 78, 75-138	7.1	150
227	Prospects of high-resolution resonant X-ray inelastic scattering studies on solid materials, liquids and gases at diffraction-limited storage rings. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 1065-76	2.4	28
226	Comment on "State-dependent electron delocalization dynamics at the solute-solvent interface: soft-x-ray absorption spectroscopy and ab initio calculations". <i>Physical Review Letters</i> , 2014 , 112, 129302	7.4	5
225	Aluminum-phosphate binder formation in zeolites as probed with X-ray absorption microscopy. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17774-87	16.4	30
224	Invisible structures in the X-ray absorption spectra of actinides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014 , 194, 88-93	1.7	16
223	Origin of Low Energy d π Excitations Observed on Wet Chemically Prepared Cobalt Bearing Nanoparticles by 2p _{3d} Resonant X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14398-14407	3.8	7
222	The iron L edges: Fe 2p X-ray absorption and electron energy loss spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 187, 32-48	1.7	87
221	Interplay between nanoscale reactivity and bulk performance of H-ZSM-5 catalysts during the methanol-to-hydrocarbons reaction. <i>Journal of Catalysis</i> , 2013 , 307, 185-193	7.3	47
220	Transition-Metal Nanoparticle Oxidation in a Chemically Nonhomogenous Environment Revealed by 2p _{3d} Resonant X-ray Emission. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1161-6	6.4	6
219	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. <i>Nature Communications</i> , 2013 , 4, 2051	17.4	112
218	From ligand fields to molecular orbitals: probing the local valence electronic structure of Ni(2+) in aqueous solution with resonant inelastic X-ray scattering. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 16512-21	3.4	31

217	X-ray nanoscopy of cobalt Fischer-Tropsch catalysts at work. <i>Chemical Communications</i> , 2013 , 49, 4622-45.8	6.0	60
216	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3641-3647	6.4	55
215	A multispectroscopic study of 3d orbitals in cobalt carboxylates: the high sensitivity of 2p3d resonant X-ray emission spectroscopy to the ligand field. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1170-4	16.4	31
214	Femtosecond M2,3-Edge Spectroscopy of Transition-Metal Oxides: Photoinduced Oxidation State Change in $\alpha\text{-Fe}_2\text{O}_3$. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3667-3671	6.4	89
213	X-Ray Imaging of SAPO-34 Molecular Sieves at the Nanoscale: Influence of Steaming on the Methanol-to-Hydrocarbons Reaction. <i>ChemCatChem</i> , 2013 , 5, 1386-1394	5.2	28
212	Influence of Axial and Peripheral Ligands on the Electronic Structure of Titanium Phthalocyanines. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4410-4420	3.8	19
211	Temperature-Dependent 1s2p Resonant Inelastic X-ray Scattering of CoO. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2976-2981	3.8	7
210	3D nanoscale chemical imaging of the distribution of aluminum coordination environments in zeolites with soft X-ray microscopy. <i>ChemPhysChem</i> , 2013 , 14, 496-9	3.2	31
209	Exchange coupling in the correlated electronic states of amorphous GdFe films. <i>Physical Review B</i> , 2013 , 88,	3.3	7
208	Mapping chemical bonding of reaction intermediates with femtosecond X-ray laser spectroscopy. <i>EPJ Web of Conferences</i> , 2013 , 41, 05025	0.3	3
207	Dissecting Local Atomic and Intermolecular Interactions of Transition-Metal Ions in Solution with Selective X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3448-53	6.4	55
206	Ab Initio Calculations of X-ray Spectra: Atomic Multiplet and Molecular Orbital Effects in a Multiconfigurational SCF Approach to the L-Edge Spectra of Transition Metal Complexes. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3565-70	6.4	139
205	Phase transformation and lithiation effect on electronic structure of $\text{Li}(x)\text{FePO}_4$: an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13708-15	16.4	121
204	Hard X-ray nanotomography of catalytic solids at work. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11986-90	16.4	84
203	Styrene oligomerization as a molecular probe reaction for Brønsted acidity at the nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6967-73	3.6	18
202	Ligand-field symmetry effects in Fe(II) polypyridyl compounds probed by transient X-ray absorption spectroscopy. <i>Faraday Discussions</i> , 2012 , 157, 463-74; discussion 475-500	3.6	46
201	Phase Transitions at the Mn/ZnO (0001) Interface Probed by High Energy X-ray Spectroscopies. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 665-670	3.8	6
200	In situ X-ray Raman spectroscopy of LiBH_4 . <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5581-7	3.6	17

199	Dips and peaks in fluorescence yield X-ray absorption are due to state-dependent decay. <i>Nature Chemistry</i> , 2012 , 4, 766-7; author reply 767-8	17.6	30
198	The x-ray magnetic circular dichroism spin sum rule for 3d4 systems: Mn ³⁺ ions in colossal magnetoresistance manganites. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 435602	1.8	5
197	Electronic Structure of CoO Nanocrystals and a Single Crystal Probed by Resonant X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15218-15230	3.8	42
196	Intrinsic deviations in fluorescence yield detected x-ray absorption spectroscopy: the case of the transition metal L _{2,3} edges. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 452201	1.8	40
195	K _β Detected High-Resolution XANES of FeII and FeIII Models of the 2-His-1-Carboxylate Motif: Analysis of the Carboxylate Binding Mode. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 1589-1597	3.7	13
194	Fabrication of Fe_{16}N_2 Films by Sputtering Process and Experimental Investigation of Origin of Giant Saturation Magnetization in Fe_{16}N_2 . <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1710-1717	2	67
193	X-ray imaging of zeolite particles at the nanoscale: influence of steaming on the state of aluminum and the methanol-to-olefin reaction. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3616-9	16.4	53
192	Three-dimensional structure and defects in colloidal photonic crystals revealed by tomographic scanning transmission X-ray microscopy. <i>Langmuir</i> , 2012 , 28, 3614-20	4	26
191	Composition tunable cobalt-nickel and cobalt-iron alloy nanoparticles below 10 nm synthesized using acetonated cobalt carbonyl. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 991	2.3	16
190	Femtosecond Soft X-ray Spectroscopy of Solvated Transition-Metal Complexes: Deciphering the Interplay of Electronic and Structural Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 880-4	6.4	159
189	Oxygen Binding to Cobalt and Iron Phthalocyanines As Determined from in Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25422-25428	3.8	34
188	A Highly Active and Selective Manganese Oxide Promoted Cobalt-on-Silica Fischer-Tropsch Catalyst. <i>Topics in Catalysis</i> , 2011 , 54, 768-777	2.3	53
187	Scanning transmission x-ray microscopy as a novel tool to probe colloidal and photonic crystals. <i>Small</i> , 2011 , 7, 804-11	11	20
186	On the surface chemistry of iron oxides in reactive gas atmospheres. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1584-8	16.4	69
185	Protonation of the oxygen axial ligand in galactose oxidase model compounds as seen with high resolution X-ray emission experiments and FEFF simulations. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5600-4	3.6	12
184	Thermally Activated Processes at the Co/ZnO Interface Elucidated Using High Energy X-rays. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7411-7418	3.8	12
183	First principles multiplet calculations of the calcium L _{2,3} -ray absorption spectra of CaO and CaF ₂ <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 145501	1.8	18
182	Mixed-valence behavior and strong correlation effects of metal phthalocyanines adsorbed on metals. <i>Physical Review B</i> , 2011 , 83,	3.3	124

181	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	32
180	Imaging and quantifying the morphology of an organic-inorganic nanoparticle at the sub-nanometre level. <i>Nature Nanotechnology</i> , 2010 , 5, 538-44	28.7	57
179	Interface properties of magnetic tunnel junction La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ superlattices studied by standing-wave excited photoemission spectroscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	69
178	Functional groups and sulfur K-edge XANES spectra: divalent sulfur and disulfides. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 9523-8	2.8	18
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27	Evolution of the spectral function in Mott-Hubbard systems across metal-insulator transitions. <i>Physica B: Condensed Matter</i> , 1993 , 186-188, 981-985	2.8	12
26	Electronic structure and metal-insulator transitions in Ti and V oxides. <i>Physica B: Condensed Matter</i> , 1993 , 186-188, 1074-1076	2.8	4
25	Chemical analysis of passivated and oxidized layers on FeCr and FeTi alloys by soft x-ray absorption spectroscopy. <i>Surface and Interface Analysis</i> , 1993 , 20, 21-26	1.5	34
24	Oxygen 1s and cobalt 2p X-ray absorption of cobalt oxides. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 2277-2288	1.8	118
23	Controlled-valence properties of La _{1-x} Sr _x FeO ₃ and La _{1-x} Sr _x MnO ₃ studied by soft-x-ray absorption spectroscopy. <i>Physical Review B</i> , 1992 , 46, 4511-4519	3.3	564
22	Evolution of the spectral function in Mott-Hubbard systems with d1 configuration. <i>Physical Review Letters</i> , 1992 , 69, 1796-1799	7.4	249
21	Doping-induced changes in the electronic structure of La _x Sr _{1-x} TiO ₃ : Limitation of the one-electron rigid-band model and the Hubbard model. <i>Physical Review B</i> , 1992 , 46, 9841-9844	3.3	158
20	L-edge x-ray absorption spectroscopy of <i>Pyrococcus furiosus</i> rubredoxin. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4426-4427	16.4	26

19	2p X-ray absorption of titanium in minerals. <i>Physics and Chemistry of Minerals</i> , 1992 , 19, 140-147	1.6	128
18	Probing depth of soft x-ray absorption spectroscopy measured in total-electron-yield mode. <i>Surface and Interface Analysis</i> , 1992 , 18, 65-69	1.5	157
17	Electronic structure of CoO, Li-doped CoO, and LiCoO ₂ . <i>Physical Review B</i> , 1991 , 44, 6090-6103	3.3	515
16	Soft-x-ray-absorption studies of the electronic-structure changes through the VO ₂ phase transition. <i>Physical Review B</i> , 1991 , 43, 7263-7266	3.3	135
15	Oxygen 1s x-ray absorption of BaPb _{1-x} BixO ₃ . <i>Physical Review B</i> , 1991 , 44, 5280-5285	3.3	15
14	Ligand field strengths and oxidation states from manganese L-edge spectroscopy. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7937-7940	16.4	180
13	Soft-x-ray-absorption studies of the location of extra charges induced by substitution in controlled-valence materials. <i>Physical Review B</i> , 1991 , 44, 5419-5422	3.3	152
12	Fine structure of the Ca 2p x-ray-absorption edge for bulk compounds, surfaces, and interfaces. <i>Physical Review B</i> , 1991 , 43, 6899-6907	3.3	82
11	L _{2,3} x-ray-absorption edges of d ⁰ compounds: K ⁺ , Ca ²⁺ , Sc ³⁺ , and Ti ⁴⁺ in Oh (octahedral) symmetry. <i>Physical Review B</i> , 1990 , 41, 928-937	3.3	529
10	2p x-ray absorption of 3d transition-metal compounds: An atomic multiplet description including the crystal field. <i>Physical Review B</i> , 1990 , 42, 5459-5468	3.3	779
9	Covalency in oxygen chemisorption as probed by x-ray absorption. <i>Physical Review B</i> , 1989 , 40, 7924-7927	3.3	38
8	The potential energy surface of triplet H ₃ ⁺ : A representation in hyperspherical coordinates. <i>Journal of Chemical Physics</i> , 1989 , 90, 2344-2356	3.9	18
7	Studies of copper valence states with Cu L ₃ x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1989 , 39, 1541-1545	3.3	228
6	Experimental resolution in soft X-ray monochromators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 275, 435-441 ^{1,2}		5
5	Unoccupied electronic states of CuO: An oxygen 1s x-ray-absorption spectroscopy investigation. <i>Physical Review B</i> , 1989 , 39, 4886-4890	3.3	84
4	Oxygen 1s x-ray-absorption edges of transition-metal oxides. <i>Physical Review B</i> , 1989 , 40, 5715-5723	3.3	961
3	Calculations of magnetic x-ray dichroism in the 3d absorption spectra of rare-earth compounds. <i>Physical Review B</i> , 1988 , 37, 2086-2093	3.3	161
2	X-ray absorption study of the O 2p hole concentration dependence on O stoichiometry in YBa ₂ Cu ₃ O _x . <i>Physical Review B</i> , 1988 , 38, 6483-6489	3.3	172

