

# Jakub Szlachetko

## List of Publications by Year in descending order

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152  
papers

3,229  
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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microliter-stirred sample setup for X-ray spectroscopy analysis of nanomaterials in suspension. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 189, 106367.	1.5	3
2	Approaching the Attosecond Frontier of Dynamics in Matter with the Concept of X-ray Chronoscopy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1721.	1.3	2
3	Determination of Crystal-Field Splitting Induced by Thermal Oxidation of Titanium. <i>Journal of Physical Chemistry A</i> , 2021, 125, 50-56.	1.1	5
4	Femtosecond X-ray spectroscopy of haem proteins. <i>Faraday Discussions</i> , 2021, 228, 312-328.	1.6	2
5	Low-Angle X-Ray Spectroscopy and Reflectometry Techniques in Interdisciplinary Applications. <i>Acta Physica Polonica A</i> , 2021, 139, 247-256.	0.2	3
6	Reduction Mechanisms of Anticancer Osmium(VI) Complexes Revealed by Atomic Telemetry and Theoretical Calculations. <i>Inorganic Chemistry</i> , 2021, 60, 6663-6671.	1.9	5
7	Mechanistic Insights into Oxygen Dynamics in Soot Combustion over Cryptomelane Catalysts in Tight and Loose Contact Modes via $^{18}\text{O}$ Isotopic Variable Composition Measurements – A Hot Ring Model of the Catalyst Operation. <i>ACS Catalysis</i> , 2021, 11, 9530-9546.	5.5	15
8	Properties of polycapillary optics dedicated to low-energy parallel-beam wavelength-dispersive spectrometers for synchrotron-based X-ray fluorescence study. <i>Optics Express</i> , 2021, 29, 27193.	1.7	5
9	Resonant X-ray Emission Spectroscopy with a SASE Beam. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8775.	1.3	1
10	Enhanced polarization transfer to the characteristic $L_{\pm}$ x-ray lines near the nonlinear Cooper minimum of two-photon ionization. <i>Physical Review A</i> , 2020, 102, .	1.0	0
11	Boosting the Performance of Nano-Ni Catalysts by Palladium Doping in Flow Hydrogenation of Sulcatone. <i>Catalysts</i> , 2020, 10, 1267.	1.6	4
12	Pulsed laser-plasma soft X-ray source as a compact tool for X-ray absorption spectroscopy of metal oxides. <i>Journal of Instrumentation</i> , 2020, 15, C05026-C05026.	0.5	0
13	Spin cascade and doming in ferric hemes: Femtosecond X-ray absorption and X-ray emission studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21914-21920.	3.3	27
14	Soot Combustion over Niobium-Doped Cryptomelane (K-OMS-2) Nanorods – Redox State of Manganese and the Lattice Strain Control the Catalysts Performance. <i>Catalysts</i> , 2020, 10, 1390.	1.6	11
15	Operando sulfur speciation during sulfur poisoning-regeneration of Ru/SiO <sub>2</sub> and Ru/Al <sub>2</sub> O <sub>3</sub> using non-resonant sulfur $K_{1,2}$ emission. <i>RSC Advances</i> , 2020, 10, 15853-15859.	1.7	3
16	<i>In situ</i> observation of charge transfer and crystal field formation via high energy resolution X-ray spectroscopy during temperature programmed oxidation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14731-14735.	1.3	2
17	Operation of a bending magnet beamline in large energy bandwidth mode for non-resonant X-ray emission spectroscopy. <i>Results in Physics</i> , 2020, 18, 103212.	2.0	4
18	Taking a snapshot of the triplet excited state of an OLED organometallic luminophore using X-rays. <i>Nature Communications</i> , 2020, 11, 2131.	5.8	24

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19	Comparative study of the around-Fermi electronic structure of 5 <i>d</i> metals and metal-oxides by means of high-resolution X-ray emission and absorption spectroscopies. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 689-694.	1.0	7
20	Femtosecond Molecular Flattening in [Cu(dmp) <sub>2</sub> ] <sup>+</sup> Probed by X-ray Emission Spectroscopy and Solution Scattering. , 2020, , .		0
21	Implementation of a crossed-slit system for fast alignment of sealed polycapillary X-ray optics. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1730-1733.	1.0	5
22	Tracking multiple components of a nuclear wavepacket in photoexcited Cu(I)-phenanthroline complex using ultrafast X-ray spectroscopy. <i>Nature Communications</i> , 2019, 10, 3606.	5.8	56
23	A von Hamos spectrometer for <i>in situ</i> sulfur speciation by non-resonant sulfur K <sub>L</sub> emission spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2105-2111.	1.6	10
24	A DuMond-type crystal spectrometer for synchrotron-based X-ray emission studies in the energy range of 15–26 keV. <i>Review of Scientific Instruments</i> , 2019, 90, 063106.	0.6	5
25	Nonlinear XUV-optical transient grating spectroscopy at the Si L <sub>2,3</sub> edge. <i>Applied Physics Letters</i> , 2019, 114, 181101.	1.5	15
26	A laboratory-based double X-ray spectrometer for simultaneous X-ray emission and X-ray absorption studies. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1409-1415.	1.6	40
27	Cross-section determination for one- and two-photon absorption of cobalt at hard-x-ray energies. <i>Physical Review A</i> , 2019, 99, .	1.0	3
28	Inception of electronic damage of matter by photon-driven post-ionization mechanisms. <i>Structural Dynamics</i> , 2019, 6, 024901.	0.9	7
29	Hydrated Electron Generation by Excitation of Copper Localized Surface Plasmon Resonance. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1743-1749.	2.1	18
30	Novel reference-free methods for the determination of the instrumental response of Laue-type bent crystal spectrometers. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 2325-2332.	1.6	0
31	Core-level nonlinear spectroscopy triggered by stochastic X-ray pulses. <i>Nature Communications</i> , 2019, 10, 4761.	5.8	23
32	The influence of nitrogen doping on the electronic structure of the valence and conduction band in TiO <sub>2</sub> . <i>Journal of Synchrotron Radiation</i> , 2019, 26, 145-151.	1.0	9
33	Revealing hole trapping in zinc oxide nanoparticles by time-resolved X-ray spectroscopy. <i>Nature Communications</i> , 2018, 9, 478.	5.8	84
34	Differences between bulk and surface electronic structure of doped TiO <sub>2</sub> with soft-elements (C, N and) Tj ETQq 0 0 0 gBT /Overlock 10	2.0	9
35	Mechanism of hydrolysis of a platinum(IV) complex discovered by atomic telemetry. <i>Journal of Inorganic Biochemistry</i> , 2018, 187, 56-61.	1.5	7
36	<i>Onâ€œtheâ€œfly</i> Catalyst Accretion and Screening in Chemoselective Flow Hydrogenation. <i>ChemCatChem</i> , 2018, 10, 3641-3646.	1.8	8

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37	Hidden gapless states during thermal transformations of preorganized zinc alkoxides to zinc oxide nanocrystals. <i>Materials Horizons</i> , 2018, 5, 905-911.	6.4	11
38	A compact and versatile tender X-ray single-shot spectrometer for online XFEL diagnostics. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 16-19.	1.0	6
39	In situ high energy resolution off-resonant spectroscopy applied to a time-resolved study of single site Ta catalyst during oxidation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 411, 63-67.	0.6	1
40	Hydrogen evolution with nanoengineered ZnO interfaces decorated using a beetroot extract and a hydrogenase mimic. <i>Sustainable Energy and Fuels</i> , 2017, 1, 69-73.	2.5	35
41	Direct Determination of Metal Complexesâ€™ Interaction with DNA by Atomic Telemetry and Multiscale Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 805-811.	2.1	21
42	Controlling dark catalysis with quasi half-cycle terahertz pulses. <i>Catalysis Science and Technology</i> , 2017, 7, 1050-1054.	2.1	3
43	Determination of Conduction and Valence Band Electronic Structure of LaTiO <sub>x</sub> N <sub>y</sub> Thin Film. <i>ChemSusChem</i> , 2017, 10, 2099-2106.	3.6	19
44	N-TiO <sub>2</sub> /Cu-TiO <sub>2</sub> double-layer films: Impact of stacking order on photocatalytic properties. <i>Journal of Catalysis</i> , 2017, 353, 116-122.	3.1	25
45	High energy resolution off-resonant spectroscopy: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 136, 23-33.	1.5	10
46	Preliminary results of human PrP <sup>C</sup> protein studied by spectroscopic techniques. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 411, 121-128.	0.6	1
47	Electronic structure of Fe, $\hat{I}_{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> and Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O determined using RXES. <i>Chemical Physics</i> , 2017, 493, 49-55.	0.9	4
48	State-Population Narrowing Effect in Two-Photon Absorption for Intense Hard X-ray Pulses. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 653.	1.3	3
49	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 720.	1.3	272
50	A Dispersive Inelastic X-ray Scattering Spectrometer for Use at X-ray Free Electron Lasers. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 899.	1.3	12
51	Hydrodechlorination Using Pdâ€“Au Nanoparticles to Convert Chloro-Containing Compounds to Useful Chemicals. , 2016, , .		1
52	Optical design of the ARAMIS-beamlines at SwissFEL. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	8
53	Establishing nonlinearity thresholds with ultraintense X-ray pulses. <i>Scientific Reports</i> , 2016, 6, 33292.	1.6	43
54	Laboratory von HÃ¼mmer X-ray spectroscopy for routine sample characterization. <i>Review of Scientific Instruments</i> , 2016, 87, 103105.	0.6	64

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55	Investigating DNA Radiation Damage Using X-Ray Absorption Spectroscopy. Biophysical Journal, 2016, 110, 1304-1311.	0.2	16
56	E-beam evaporated TiO <sub>2</sub> and Cu-TiO <sub>2</sub> on glass: Performance in the discoloration of methylene blue and 2-propanol oxidation. Applied Catalysis A: General, 2016, 526, 191-199.	2.2	34
57	Cr-doping effects on unoccupied d-band electronic structure of TiO <sub>2</sub> . Chemical Physics Letters, 2016, 664, 73-76.	1.2	8
58	An operando emission spectroscopy study of Pt/Al <sub>2</sub> O <sub>3</sub> and Pt/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> . Physical Chemistry Chemical Physics, 2016, 18, 29268-29277.	1.3	12
59	X-ray emission spectroscopy: highly sensitive techniques for time-resolved probing of cerium reactivity under catalytic conditions. Physical Chemistry Chemical Physics, 2016, 18, 32486-32493.	1.3	11
60	Resonant X-ray emission spectroscopy of platinum( $\text{Pt}(\text{II})$ ) anticancer complexes. Analyst, The, 2016, 141, 1226-1232.	1.7	6
61	Femtosecond X-ray Absorption and Emission Spectroscopy on ZnO Nanoparticles in Solution. , 2016, , .		0
62	Synchrotron and X-Ray Free Electron Laser Studies of High-Valent Iron Formation with X-ray Absorption Spectroscopy. , 2016, , .		0
63	Subshell-selective x-ray studies of radiative recombination of $\text{U}^{92+}$ with electrons for very low relative energies. Physical Review A, 2015, 92, .	1.0	7
64	Catalytically Active and Spectator Ce <sup>3+</sup> in Ceria-Supported Metal Catalysts. Angewandte Chemie - International Edition, 2015, 54, 8728-8731.	7.2	168
65	Two-photon absorption using off-resonant excitation with ultrashort X-ray pulses. Journal of Physics: Conference Series, 2015, 635, 092147.	0.3	0
66	X-ray two-photon absorption with high fluence XFEL pulses. Journal of Physics: Conference Series, 2015, 635, 102009.	0.3	4
67	Depth-Resolved X-ray Absorption Spectroscopy by Means of Grazing Emission X-ray Fluorescence. Analytical Chemistry, 2015, 87, 10815-10821.	3.2	20
68	The use of Resonant X-ray Emission Spectroscopy (RXES) for the electronic analysis of metal complexes and their interactions with biomolecules. Drug Discovery Today: Technologies, 2015, 16, 1-6.	4.0	2
69	Study of the reactivity of silica supported tantalum catalysts with oxygen followed by in situ HEROS. Physical Chemistry Chemical Physics, 2015, 17, 18262-18264.	1.3	4
70	Chemical State Analysis of Phosphorus Performed by X-ray Emission Spectroscopy. Analytical Chemistry, 2015, 87, 5632-5639.	3.2	22
71	Nanoparticle characterization by means of scanning free grazing emission X-ray fluorescence. Nanoscale, 2015, 7, 9320-9330.	2.8	15
72	Insights into the structure-activity relationships of chiral 1,2-diaminophenylalkane platinum(II) anticancer derivatives. Journal of Biological Inorganic Chemistry, 2015, 20, 841-853.	1.1	7

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73	Tracking the Temporal Dynamics of Intracellular Lead Speciation in a Green Alga. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11176-11181.	4.6	13
74	Incorporation of chromium into TiO <sub>2</sub> nanopowders. <i>Materials Research Bulletin</i> , 2015, 64, 112-116.	2.7	6
75	Importance of the electronic structure of modified TiO <sub>2</sub> in the photoelectrochemical processes of hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 815-824.	3.8	16
76	Communication: The electronic structure of matter probed with a single femtosecond hard x-ray pulse. <i>Structural Dynamics</i> , 2014, 1, 021101.	0.9	31
77	Time-resolved X-ray absorption and emission spectroscopy on ZnO nanoparticles in solution. , 2014, , .		0
78	Heterogeneous Catalysis Experiments at XFELs. Are we Close to Producing a Catalysis Movie?. <i>Catalysis Letters</i> , 2014, 144, 197-203.	1.4	6
79	Heterogenized Gold(I)â€“Carbene as a Singleâ€“Site Catalyst in Continuous Flow. <i>ChemCatChem</i> , 2014, 6, 443-448.	1.8	8
80	Effective catalytic disproportionation of aqueous H <sub>2</sub> O <sub>2</sub> with di- and mono-nuclear manganese(II) complexes containing pyridine alcohol ligands. <i>Dalton Transactions</i> , 2014, 43, 8599-8608.	1.6	16
81	Electronic and Geometric Structure of Ce <sup>3+</sup> Forming Under Reducing Conditions in Shaped Ceria Nanoparticles Promoted by Platinum. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1974-1982.	1.5	34
82	Temperature-programmed reduction of NiO nanoparticles followed by time-resolved RIXS. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7692.	1.3	29
83	Novel in situ methodology to observe the interactions of chemotherapeutical Pt drugs with DNA under physiological conditions. <i>Dalton Transactions</i> , 2014, 43, 13839-13844.	1.6	18
84	Real Time Determination of the Electronic Structure of Unstable Reaction Intermediates during Au <sub>2</sub> O <sub>3</sub> Reduction. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 80-84.	2.1	30
85	High Energy Resolution Off-Resonant Spectroscopy for X-Ray Absorption Spectra Free of Self-Absorption Effects. <i>Physical Review Letters</i> , 2014, 112, 173003.	2.9	37
86	Determination of conduction and valence band electronic structure of anatase and rutile TiO <sub>2</sub> . <i>Journal of Chemical Sciences</i> , 2014, 126, 511-515.	0.7	26
87	Determination of conduction and valence band electronic structure of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> thin film. <i>RSC Advances</i> , 2014, 4, 11420.	1.7	9
88	Grazing angle X-ray fluorescence from periodic structures on silicon and silica surfaces. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 65-75.	1.5	17
89	Techniques: RXES, HR-AXAS, HEROS, GIXRF, and GEXRF. , 2014, , 59-116.		2
90	Olefin Hydrogenation with Single-Site Gold. <i>Acta Physica Polonica A</i> , 2014, 125, 940-943.	0.2	2

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91	X-ray spectroscopic methods in the studies of nonstoichiometric TiO <sub>2-x</sub> thin films. Applied Surface Science, 2013, 281, 100-104.	3.1	22
92	Au <sup>I</sup> Catalysis on a Coordination Polymer: A Solid Porous Ligand with Free Phosphine Sites. ChemCatChem, 2013, 5, 692-696.	1.8	43
93	High-energy-resolution grazing emission X-ray fluorescence applied to the characterization of thin Al films on Si. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 136-149.	1.5	16
94	On the sensitivity of hard X-ray spectroscopies to the chemical state of Br. Physical Chemistry Chemical Physics, 2013, 15, 11088.	1.3	13
95	In situ hard X-ray quick RIXS to probe dynamic changes in the electronic structure of functional materials. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 161-165.	0.8	29
96	Magnetic manipulation of molecules on a non-magnetic catalytic surface. Nanoscale, 2013, 5, 8462.	2.8	26
97	Fine tuning of gold electronic structure by IRMOF post-synthetic modification. RSC Advances, 2013, 3, 12043.	1.7	12
98	Direct observation of charge separation on Au localized surface plasmons. Energy and Environmental Science, 2013, 6, 3584.	15.6	70
99	A novel single-site manganese(ii) complex of a pyridine derivative as a catalase mimetic for disproportionation of H <sub>2</sub> O <sub>2</sub> in water. Dalton Transactions, 2013, 42, 7761.	1.6	18
100	Transient mid-IR study of electron dynamics in TiO <sub>2</sub> conduction band. Analyst, The, 2013, 138, 1966.	1.7	19
101	Synchrotron radiation based micro X-ray fluorescence analysis of the calibration samples used in surface sensitive total reflection and grazing emission X-ray fluorescence techniques. Radiation Physics and Chemistry, 2013, 93, 117-122.	1.4	3
102	Rational design of oxynitride materials: From theory to experiment. CrystEngComm, 2013, 15, 2583.	1.3	27
103	X-ray absorption and emission spectroscopy of TiO <sub>2</sub> thin films with modified anionic sublattice. Radiation Physics and Chemistry, 2013, 93, 40-46.	1.4	8
104	Geometrical optics modelling of grazing incidence X-ray fluorescence of nanoscaled objects. Journal of Analytical Atomic Spectrometry, 2013, 28, 689.	1.6	12
105	High energy resolution fluorescence detection XANES – an in situ method to study the interaction of adsorbed molecules with metal catalysts in the liquid phase. Catalysis Science and Technology, 2013, 3, 1497.	2.1	24
106	Subsecond and in Situ Chemical Speciation of Pt/Al <sub>2</sub> O <sub>3</sub> during Oxidation/Reduction Cycles Monitored by High-Energy Resolution Off-Resonant X-ray Spectroscopy. Journal of the American Chemical Society, 2013, 135, 19071-19074.	6.6	43
107	Hard x-ray absorption spectroscopy for pulsed sources. Physical Review B, 2013, 87, .	1.1	21
108	Scanning-free grazing emission x-ray fluorescence by means of an angular dispersive arrangement with a two-dimensional position-sensitive area detector. Review of Scientific Instruments, 2013, 84, 123102.	0.6	18

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109	High-resolution Laue-type DuMond curved crystal spectrometer. <i>Review of Scientific Instruments</i> , 2013, 84, 093104.	0.6	27
110	High energy resolution off-resonant spectroscopy at sub-second time resolution: (Pt(acac) <sub>2</sub> ) decomposition. <i>Chemical Communications</i> , 2012, 48, 10898.	2.2	48
111	Scientific Opportunities for Heterogeneous Catalysis Research at the SuperXAS and SNBL Beam Lines. <i>Chimia</i> , 2012, 66, 699.	0.3	60
112	Determination of catalytic reaction mechanisms by isotopic frequency response. <i>Analyst</i> , 2012, 137, 5374.	1.7	4
113	Deconvolution of the Mechanism of Homogeneous Gold-Catalyzed Reactions. <i>Organometallics</i> , 2012, 31, 2395-2402.	1.1	31
114	The oxidation state of copper in bimetallic (Pt-Cu, Pd-Cu) catalysts during water denitration. <i>Catalysis Science and Technology</i> , 2012, 2, 794.	2.1	32
115	HERFD XAS/ATR-FTIR batch reactor cell. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2164-2170.	1.3	29
116	Structure of the methanol synthesis catalyst determined by in situ HERFD XAS and EXAFS. <i>Catalysis Science and Technology</i> , 2012, 2, 373-378.	2.1	33
117	Enhanced radiative recombination of U <sup>92+</sup> ions with cooling electrons for the K-shell. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062044.	0.3	0
118	A von Hamos x-ray spectrometer based on a segmented-type diffraction crystal for single-shot x-ray emission spectroscopy and time-resolved resonant inelastic x-ray scattering studies. <i>Review of Scientific Instruments</i> , 2012, 83, 103105.	0.6	158
119	Depth profiling of dopants implanted in Si using the synchrotron radiation based high-resolution grazing emission technique. <i>X-Ray Spectrometry</i> , 2012, 41, 98-104.	0.9	16
120	Polyhedral CeO <sub>2</sub> Nanoparticles: Size-Dependent Geometrical and Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7312-7317.	1.5	108
121	Photopolymerized Polypyrrole Microvessels. <i>Chemistry - A European Journal</i> , 2012, 18, 310-320.	1.7	30
122	Evaluation of Pt and Re oxidation state in a pressurized reactor: difference in reduction between gas and liquid phase. <i>Chemical Communications</i> , 2011, 47, 6590.	2.2	27
123	Synthesizing lead antimonate in ancient and modern opaque glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1040.	1.6	61
124	Coupling a wavelength dispersive spectrometer with a synchrotron-based X-ray microscope: A winning combination for micro-X-ray fluorescence and micro-XANES analyses of complex artistic materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1051.	1.6	22
125	First Observation of Two-Electron One-Photon Transitions in Single-Photon K-Shell Double Ionization. <i>Physical Review Letters</i> , 2011, 107, 053001.	2.9	27
126	Calcareous sponge biomineralization: Ultrastructural and compositional heterogeneity of spicules in <i>Leuconia johnstoni</i> . <i>Journal of Structural Biology</i> , 2011, 173, 99-109.	1.3	17



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127	Application of wavelength dispersive X-ray spectroscopy to improve detection limits in X-ray analysis. X-Ray Spectrometry, 2011, 40, 2-6.	0.9	12
128	High-resolution KMM radiative Auger x-ray emission spectra of calcium induced by synchrotron radiation. Physical Review A, 2011, 83, .	1.0	4
129	Double K-shell photoionization and hypersatellite x-ray transitions of $^{12}\text{C}$ . Physical Review A, 2010, 82, .	1.0	21
130	Depth profiles of Al impurities implanted in Si wafers determined by means of the high-resolution grazing emission X-ray fluorescence technique. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 445-449.	1.5	14
131	Wavelength-dispersive spectrometer for X-ray microfluorescence analysis at the X-ray microscopy beamline ID21 (ESRF). Journal of Synchrotron Radiation, 2010, 17, 400-408.	1.0	64
132	Single-photon double K-shell ionization of low-Z atoms. Journal of Physics: Conference Series, 2010, 212, 012006.	0.3	1
133	Observation of ultralow-level Al impurities on a silicon surface by high-resolution grazing emission x-ray fluorescence excited by synchrotron radiation. Physical Review B, 2009, 80, .	1.1	21
134	Separation of Two-Electron Photoexcited Atomic Processes near the Inner-Shell Threshold. Physical Review Letters, 2009, 102, 143001.	2.9	32
135	Double K-shell ionization of Al induced by photon and electron impact. Physical Review A, 2009, 79, .	1.0	15
136	Physical Mechanisms and Scaling Laws of K-Shell Double Photoionization. Physical Review Letters, 2009, 102, 073006.	2.9	68
137	Application of the high-resolution grazing-emission x-ray fluorescence method for impurities control in semiconductor nanotechnology. Journal of Applied Physics, 2009, 105, 086101.	1.1	25
138	The enhancement effect in K-shell radiative recombination of $\text{U}^{92+}$ ions with cooling electrons. European Physical Journal: Special Topics, 2009, 169, 15-18.	1.2	7
139	Double K-shell photoionization of low-Z atoms and He-like ions. European Physical Journal: Special Topics, 2009, 169, 23-27.	1.2	1
140	L-subshell Coster-Kronig yields of palladium determined via synchrotron-radiation-based high-resolution x-ray spectroscopy. Physical Review A, 2009, 80, .	1.0	7
141	Fluorescence X-ray micro-spectroscopy activities at ESRF. Journal of Physics: Conference Series, 2009, 186, 012014.	0.3	3
142	Observation of enhancement in K-shell radiative recombination of $\text{U}^{92+}$ ions with cooling electrons. Journal of Physics: Conference Series, 2009, 194, 062017.	0.3	1
143	Double K-shell photoionization and universal scaling laws. Journal of Physics: Conference Series, 2009, 194, 022040.	0.3	0
144	Inelastic x-ray scattering in the vicinity of xenon L3 edge. Physical Review A, 2007, 76, .	1.0	20

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145	A 2D position sensitive germanium detector for spectroscopy and polarimetry of high-energetic x-rays. Journal of Physics: Conference Series, 2007, 58, 411-414.	0.3	5
146	Relative detection efficiency of back- and front-illuminated charge-coupled device cameras for x-rays between 1keV and 18keV. Review of Scientific Instruments, 2007, 78, 093102.	0.6	26
147	High-resolution study of the x-ray resonant Raman scattering process around the L <sub>1</sub> absorption edge for aluminium, silicon, and their oxides. Physical Review A, 2007, 75, .	1.0	23
148	Chemical effects in the K <sub>L</sub> <sup>2</sup> X-ray emission spectra of sulfur. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 642-646.	0.6	28
149	STATE-SELECTIVE X-RAY STUDY OF THE RADIATIVE RECOMBINATION OF U <sup>92+</sup> IONS WITH COOLING ELECTRONS. , 2006, , .		1
150	High-Resolution Study of X-Ray Resonant Raman Scattering at the K Edge of Silicon. Physical Review Letters, 2006, 97, 073001.	2.9	29
151	Resonant X-ray Raman scattering for Al, Si and their oxides. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 353-356.	0.6	5
152	X-ray Spectroscopy on Biological Systems. , 0, , .		1