# Jakub Szlachetko

List of Publications by Year
in descending order



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|---|---|---|---|
| 152 papers | 3,229 citations | 172207 29 h-index | 205818 48 g-index |
| 157 all docs | 157 docs citations | 157 times ranked | 4542 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720. | 1.3 | 272 |
| 2 | Catalytically Active and Spectator Ce<sup>3+</sup> in Ceriaâ€Supported Metal Catalysts. Angewandte Chemie - International Edition, 2015, 54, 8728-8731. | 7.2 | 168 |
| 3 | 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. Review of Scientific Instruments, 2012, 83, 103105. | 0.6 | 158 |
| 4 | Polyhedral CeO<sub>2</sub> Nanoparticles: Size-Dependent Geometrical and Electronic Structure. Journal of Physical Chemistry C, 2012, 116, 7312-7317. | 1.5 | 108 |
| 5 | Revealing hole trapping in zinc oxide nanoparticles by time-resolved X-ray spectroscopy. Nature Communications, 2018, 9, 478. | 5.8 | 84 |
| 6 | Direct observation of charge separation on Au localized surface plasmons. Energy and Environmental Science, 2013, 6, 3584. | 15.6 | 70 |
| 7 | Physical Mechanisms and Scaling Laws of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>-Shell Double Photoionization. Physical Review Letters, 2009, 102, 073006. | 2.9 | 68 |
| 8 | 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 |
| 9 | Laboratory von HÃ¡mos X-ray spectroscopy for routine sample characterization. Review of Scientific Instruments, 2016, 87, 103105. | 0.6 | 64 |
| 10 | Synthesizing lead antimonate in ancient and modern opaque glass. Journal of Analytical Atomic Spectrometry, 2011, 26, 1040. | 1.6 | 61 |
| 11 | Scientific Opportunities for Heterogeneous Catalysis Research at the SuperXAS and SNBL Beam Lines. Chimia, 2012, 66, 699. | 0.3 | 60 |
| 12 | Tracking multiple components of a nuclear wavepacket in photoexcited Cu(I)-phenanthroline complex using ultrafast X-ray spectroscopy. Nature Communications, 2019, 10, 3606. | 5.8 | 56 |
| 13 | High energy resolution off-resonant spectroscopy at sub-second time resolution: (Pt(acac)2) decomposition. Chemical Communications, 2012, 48, 10898. | 2.2 | 48 |
| 14 | 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 |
| 15 | Subsecond and in Situ Chemical Speciation of Pt/Al<sub>2</sub>O<sub>3</sub> during Oxidationâ€“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 |
| 16 | Establishing nonlinearity thresholds with ultraintense X-ray pulses. Scientific Reports, 2016, 6, 33292. | 1.6 | 43 |
| 17 | A laboratory-based double X-ray spectrometer for simultaneous X-ray emission and X-ray absorption studies. Journal of Analytical Atomic Spectrometry, 2019, 34, 1409-1415. | 1.6 | 40 |
| 18 | High Energy Resolution Off-Resonant Spectroscopy for X-Ray Absorption Spectra Free of Self-Absorption Effects. Physical Review Letters, 2014, 112, 173003. | 2.9 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hydrogen evolution with nanoengineered ZnO interfaces decorated using a beetroot extract and a hydrogenase mimic. Sustainable Energy and Fuels, 2017, 1, 69-73. | 2.5 | 35 |
| 20 | Electronic and Geometric Structure of Ce<sup>3+</sup> Forming Under Reducing Conditions in Shaped Ceria Nanoparticles Promoted by Platinum. Journal of Physical Chemistry C, 2014, 118, 1974-1982. | 1.5 | 34 |
| 21 | E-beam evaporated TiO 2 and Cu-TiO 2 on glass: Performance in the discoloration of methylene blue and 2-propanol oxidation. Applied Catalysis A: General, 2016, 526, 191-199. | 2.2 | 34 |
| 22 | Structure of the methanol synthesis catalyst determined by in situHERFD XAS and EXAFS. Catalysis Science and Technology, 2012, 2, 373-378. | 2.1 | 33 |
| 23 | Separation of Two-Electron Photoexcited Atomic Processes near the Inner-Shell Threshold. Physical Review Letters, 2009, 102, 143001. | 2.9 | 32 |
| 24 | The oxidation state of copper in bimetallic (Ptâ€“Cu, Pdâ€“Cu) catalysts during water denitration. Catalysis Science and Technology, 2012, 2, 794. | 2.1 | 32 |
| 25 | Deconvolution of the Mechanism of Homogeneous Gold-Catalyzed Reactions. Organometallics, 2012, 31, 2395-2402. | 1.1 | 31 |
| 26 | Communication: The electronic structure of matter probed with a single femtosecond hard x-ray pulse. Structural Dynamics, 2014, 1, 021101. | 0.9 | 31 |
| 27 | Photopolymerized Polypyrrole Microvessels. Chemistry - A European Journal, 2012, 18, 310-320. | 1.7 | 30 |
| 28 | Real Time Determination of the Electronic Structure of Unstable Reaction Intermediates during Au<sub>2</sub>O<sub>3</sub> Reduction. Journal of Physical Chemistry Letters, 2014, 5, 80-84. | 2.1 | 30 |
| 29 | High-Resolution Study of X-Ray Resonant Raman Scattering at theKEdge of Silicon. Physical Review Letters, 2006, 97, 073001. | 2.9 | 29 |
| 30 | HERFD XAS/ATR-FTIR batch reactor cell. Physical Chemistry Chemical Physics, 2012, 14, 2164-2170. | 1.3 | 29 |
| 31 | 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 |
| 32 | Temperature-programmed reduction of NiO nanoparticles followed by time-resolved RIXS. Physical Chemistry Chemical Physics, 2014, 16, 7692. | 1.3 | 29 |
| 33 | Chemical effects in the KÎ² X-ray emission spectra of sulfur. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 642-646. | 0.6 | 28 |
| 34 | Evaluation of Pt and Re oxidation state in a pressurized reactor: difference in reduction between gas and liquid phase. Chemical Communications, 2011, 47, 6590. | 2.2 | 27 |
| 35 | First Observation of Two-Electron One-Photon Transitions in Single-Photon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>-Shell Double Ionization. Physical Review Letters, 2011, 107, 053001. | 2.9 | 27 |
| 36 | Rational design of oxynitride materials: From theory to experiment. CrystEngComm, 2013, 15, 2583. | 1.3 | 27 |

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| 37 | High-resolution Laue-type DuMond curved crystal spectrometer. Review of Scientific Instruments, 2013, 84, 093104. | 0.6 | 27 |
| 38 | Spin cascade and doming in ferric hemes: Femtosecond X-ray absorption and X-ray emission studies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21914-21920. | 3.3 | 27 |
| 39 | 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 |
| 40 | Magnetic manipulation of molecules on a non-magnetic catalytic surface. Nanoscale, 2013, 5, 8462. | 2.8 | 26 |
| 41 | Determination of conduction and valence band electronic structure of anatase and rutile TiO 2. Journal of Chemical Sciences, 2014, 126, 511-515. | 0.7 | 26 |
| 42 | 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 |
| 43 | N-TiO2/Cu-TiO2 double-layer films: Impact of stacking order on photocatalytic properties. Journal of Catalysis, 2017, 353, 116-122. | 3.1 | 25 |
| 44 | High energy resolution fluorescence detection XANES â€“ 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 |
| 45 | Taking a snapshot of the triplet excited state of an OLED organometallic luminophore using X-rays. Nature Communications, 2020, 11, 2131. | 5.8 | 24 |
| 46 | High-resolution study of the x-ray resonant Raman scattering process around the1sabsorption edge for aluminium, silicon, and their oxides. Physical Review A, 2007, 75, . | 1.0 | 23 |
| 47 | Core-level nonlinear spectroscopy triggered by stochastic X-ray pulses. Nature Communications, 2019, 10, 4761. | 5.8 | 23 |
| 48 | 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. Journal of Analytical Atomic Spectrometry, 2011, 26, 1051. | 1.6 | 22 |
| 49 | X-ray spectroscopic methods in the studies of nonstoichiometric TiO2â˜'x thin films. Applied Surface Science, 2013, 281, 100-104. | 3.1 | 22 |
| 50 | Chemical State Analysis of Phosphorus Performed by X-ray Emission Spectroscopy. Analytical Chemistry, 2015, 87, 5632-5639. | 3.2 | 22 |
| 51 | 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 |
| 52 | Double<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>K</mml:mi></mml:mrow></mml:math>-shell photoionization and hypersatellite x-ray transitions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>12</mml:mn><mml:mo>â©½</mml:mo><mml:mi>Z</mml:mi><mml:mo>â©½</mml:mo><m Physical Review A, 2010, 82, . | 1.0 | 21 |
| 53 | Hard x-ray absorption spectroscopy for pulsed sources. Physical Review B, 2013, 87, . | 1.1 | 21 |
| 54 | Direct Determination of Metal Complexesâ€™ Interaction with DNA by Atomic Telemetry and Multiscale Molecular Dynamics. Journal of Physical Chemistry Letters, 2017, 8, 805-811. | 2.1 | 21 |

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|---|---|---|---|
| 55 | Inelastic x-ray scattering in the vicinity of xenonL3edge. Physical Review A, 2007, 76, . | 1.0 | 20 |
| 56 | Depth-Resolved X-ray Absorption Spectroscopy by Means of Grazing Emission X-ray Fluorescence. Analytical Chemistry, 2015, 87, 10815-10821. | 3.2 | 20 |
| 57 | Transient mid-IR study of electron dynamics in TiO2 conduction band. Analyst, The, 2013, 138, 1966. | 1.7 | 19 |
| 58 | Determination of Conduction and Valence Band Electronic Structure of LaTiO x N y Thin Film. ChemSusChem, 2017, 10, 2099-2106. | 3.6 | 19 |
| 59 | A novel single-site manganese(ii) complex of a pyridine derivative as a catalase mimetic for disproportionation of H2O2 in water. Dalton Transactions, 2013, 42, 7761. | 1.6 | 18 |
| 60 | 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 |
| 61 | Novel in situ methodology to observe the interactions of chemotherapeutical Pt drugs with DNA under physiological conditions. Dalton Transactions, 2014, 43, 13839-13844. | 1.6 | 18 |
| 62 | Hydrated Electron Generation by Excitation of Copper Localized Surface Plasmon Resonance. Journal of Physical Chemistry Letters, 2019, 10, 1743-1749. | 2.1 | 18 |
| 63 | Calcareous sponge biomineralization: Ultrastructural and compositional heterogeneity of spicules in Leuconia johnstoni. Journal of Structural Biology, 2011, 173, 99-109. | 1.3 | 17 |
| 64 | Grazing angle X-ray fluorescence from periodic structures on silicon and silica surfaces. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 98, 65-75. | 1.5 | 17 |
| 65 | Depth profiling of dopants implanted in Si using the synchrotron radiation based highâ€resolution grazing emission technique. X-Ray Spectrometry, 2012, 41, 98-104. | 0.9 | 16 |
| 66 | 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 |
| 67 | Effective catalytic disproportionation of aqueous H<sub>2</sub>O<sub>2</sub>with di- and mono-nuclear manganese(<scp>ii</scp>) complexes containing pyridine alcohol ligands. Dalton Transactions, 2014, 43, 8599-8608. | 1.6 | 16 |
| 68 | Importance of the electronic structure of modified TiO 2 in the photoelectrochemical processes of hydrogen generation. International Journal of Hydrogen Energy, 2015, 40, 815-824. | 3.8 | 16 |
| 69 | Investigating DNA Radiation Damage Using X-Ray Absorption Spectroscopy. Biophysical Journal, 2016, 110, 1304-1311. | 0.2 | 16 |
| 70 | DoubleK-shell ionization of Al induced by photon and electron impact. Physical Review A, 2009, 79, . | 1.0 | 15 |
| 71 | Nanoparticle characterization by means of scanning free grazing emission X-ray fluorescence. Nanoscale, 2015, 7, 9320-9330. | 2.8 | 15 |
| 72 | Nonlinear XUV-optical transient grating spectroscopy at the Si L2,3â€“edge. Applied Physics Letters, 2019, 114, 181101. | 1.5 | 15 |

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|---|---|---|---|
| 73 | Mechanistic Insights into Oxygen Dynamics in Soot Combustion over Cryptomelane Catalysts in Tight and Loose Contact Modes via <sup>18</sup>O<sub>2</sub>/<sup>16</sup>O<sub>2</sub> Isotopic Variable Composition Measurements â€“ A Hot Ring Model of the Catalyst Operation. ACS Catalysis, 2021, 11, 9530-9546. | 5.5 | 15 |
| 74 | 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 |
| 75 | On the sensitivity of hard X-ray spectroscopies to the chemical state of Br. Physical Chemistry Chemical Physics, 2013, 15, 11088. | 1.3 | 13 |
| 76 | Tracking the Temporal Dynamics of Intracellular Lead Speciation in a Green Alga. Environmental Science & Technology, 2015, 49, 11176-11181. | 4.6 | 13 |
| 77 | Application of wavelength dispersive Xâ€ray spectroscopy to improve detection limits in Xâ€ray analysis. X-Ray Spectrometry, 2011, 40, 2-6. | 0.9 | 12 |
| 78 | Fine tuning of gold electronic structure by IRMOF post-synthetic modification. RSC Advances, 2013, 3, 12043. | 1.7 | 12 |
| 79 | Geometrical optics modelling of grazing incidence X-ray fluorescence of nanoscaled objects. Journal of Analytical Atomic Spectrometry, 2013, 28, 689. | 1.6 | 12 |
| 80 | 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 |
| 81 | A Dispersive Inelastic X-ray Scattering Spectrometer for Use at X-ray Free Electron Lasers. Applied Sciences (Switzerland), 2017, 7, 899. | 1.3 | 12 |
| 82 | 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 |
| 83 | Hidden gapless states during thermal transformations of preorganized zinc alkoxides to zinc oxide nanocrystals. Materials Horizons, 2018, 5, 905-911. | 6.4 | 11 |
| 84 | Soot Combustion over Niobium-Doped Cryptomelane (K-OMS-2) Nanorodsâ€”Redox State of Manganese and the Lattice Strain Control the Catalysts Performance. Catalysts, 2020, 10, 1390. | 1.6 | 11 |
| 85 | High energy resolution off-resonant spectroscopy: A review. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 136, 23-33. | 1.5 | 10 |
| 86 | A von Hamos spectrometer for in situ sulfur speciation by non-resonant sulfur KÎ± emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2019, 34, 2105-2111. | 1.6 | 10 |
| 87 | Determination of conduction and valence band electronic structure of La2Ti2O7 thin film. RSC Advances, 2014, 4, 11420. | 1.7 | 9 |
| 88 | Differences between bulk and surface electronic structure of doped TiO2 with soft-elements (C, N and) Tj ETQq0 0 0 rgBT /Overlock 10 T | 2.0 | 9 |
| 89 | The influence of nitrogen doping on the electronic structure of the valence and conduction band in TiO<sub>2</sub>. Journal of Synchrotron Radiation, 2019, 26, 145-151. | 1.0 | 9 |
| 90 | X-ray absorption and emission spectroscopy of TiO2 thin films with modified anionic sublattice. Radiation Physics and Chemistry, 2013, 93, 40-46. | 1.4 | 8 |

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| 91 | Heterogenized Gold(I)â€“Carbene as a Singleâ€Site Catalyst in Continuous Flow. ChemCatChem, 2014, 6, 443-448. | 1.8 | 8 |
| 92 | Optical design of the ARAMIS-beamlines at SwissFEL. AIP Conference Proceedings, 2016, , . | 0.3 | 8 |
| 93 | Cr-doping effects on unoccupied d-band electronic structure of TiO2. Chemical Physics Letters, 2016, 664, 73-76. | 1.2 | 8 |
| 94 | Onâ€theâ€fly Catalyst Accretion and Screening in Chemoselective Flow Hydrogenation. ChemCatChem, 2018, 10, 3641-3646. | 1.8 | 8 |
| 95 | The enhancement effect in K-shell radiative recombination of $mbox{sffamilyfseries U}^{hbox{sffamilyfseriesontsize{10}{12}selectfont 92+}}$ ions with cooling electrons. European Physical Journal: Special Topics, 2009, 169, 15-18. | 1.2 | 7 |
| 96 | 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 |
| 97 | Subshell-selective x-ray studies of radiative recombination of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mrow><mml:mn>92</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms with electrons for very low relative energies. Physical Review A, 2015, 92, . | 1.0 | 7 |
| 98 | Insights into the structureâ€“activity relationships of chiral 1,2-diaminophenylalkane platinum(II) anticancer derivatives. Journal of Biological Inorganic Chemistry, 2015, 20, 841-853. | 1.1 | 7 |
| 99 | Mechanism of hydrolysis of a platinum(IV) complex discovered by atomic telemetry. Journal of Inorganic Biochemistry, 2018, 187, 56-61. | 1.5 | 7 |
| 100 | Inception of electronic damage of matter by photon-driven post-ionization mechanisms. Structural Dynamics, 2019, 6, 024901. | 0.9 | 7 |
| 101 | Comparative study of the around-Fermi electronic structure of 5d metals and metal-oxides by means of high-resolution X-ray emission and absorption spectroscopies. Journal of Synchrotron Radiation, 2020, 27, 689-694. | 1.0 | 7 |
| 102 | Heterogeneous Catalysis Experiments at XFELs. Are we Close to Producing a Catalysis Movie?. Catalysis Letters, 2014, 144, 197-203. | 1.4 | 6 |
| 103 | Incorporation of chromium into TiO2 nanopowders. Materials Research Bulletin, 2015, 64, 112-116. | 2.7 | 6 |
| 104 | Resonant X-ray emission spectroscopy of platinum(<scp>ii</scp>) anticancer complexes. Analyst, The, 2016, 141, 1226-1232. | 1.7 | 6 |
| 105 | A compact and versatile tender X-ray single-shot spectrometer for online XFEL diagnostics. Journal of Synchrotron Radiation, 2018, 25, 16-19. | 1.0 | 6 |
| 106 | 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 |
| 107 | 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 |
| 108 | A DuMond-type crystal spectrometer for synchrotron-based X-ray emission studies in the energy range of 15â€“26 keV. Review of Scientific Instruments, 2019, 90, 063106. | 0.6 | 5 |

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| 109 | Determination of Crystal-Field Splitting Induced by Thermal Oxidation of Titanium. Journal of Physical Chemistry A, 2021, 125, 50-56. | 1.1 | 5 |
| 110 | Reduction Mechanisms of Anticancer Osmium(VI) Complexes Revealed by Atomic Telemetry and Theoretical Calculations. Inorganic Chemistry, 2021, 60, 6663-6671. | 1.9 | 5 |
| 111 | Properties of polycapillary optics dedicated to low-energy parallel-beam wavelength-dispersive spectrometers for synchrotron-based X-ray fluorescence study. Optics Express, 2021, 29, 27193. | 1.7 | 5 |
| 112 | Implementation of a crossed-slit system for fast alignment of sealed polycapillary X-ray optics. Journal of Synchrotron Radiation, 2020, 27, 1730-1733. | 1.0 | 5 |
| 113 | High-resolutionKMMradiative Auger x-ray emission spectra of calcium induced by synchrotron radiation. Physical Review A, 2011, 83, . | 1.0 | 4 |
| 114 | Determination of catalytic reaction mechanisms by isotopic frequency response. Analyst, The, 2012, 137, 5374. | 1.7 | 4 |
| 115 | X-ray two-photon absorption with high fluence XFEL pulses. Journal of Physics: Conference Series, 2015, 635, 102009. | 0.3 | 4 |
| 116 | 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 |
| 117 | Electronic structure of Fe, Î±-Fe 2 O 3 and Fe(NO 3 ) 3 Ã— 9 H 2 O determined using RXES. Chemical Physics, 2017, 493, 49-55. | 0.9 | 4 |
| 118 | Boosting the Performance of Nano-Ni Catalysts by Palladium Doping in Flow Hydrogenation of Sulcatone. Catalysts, 2020, 10, 1267. | 1.6 | 4 |
| 119 | Operation of a bending magnet beamline in large energy bandwidth mode for non-resonant X-ray emission spectroscopy. Results in Physics, 2020, 18, 103212. | 2.0 | 4 |
| 120 | Fluorescence X-ray micro-spectroscopy activities at ESRF. Journal of Physics: Conference Series, 2009, 186, 012014. | 0.3 | 3 |
| 121 | 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 |
| 122 | Controlling dark catalysis with quasi half-cycle terahertz pulses. Catalysis Science and Technology, 2017, 7, 1050-1054. | 2.1 | 3 |
| 123 | State-Population Narrowing Effect in Two-Photon Absorption for Intense Hard X-ray Pulses. Applied Sciences (Switzerland), 2017, 7, 653. | 1.3 | 3 |
| 124 | Cross-section determination for one- and two-photon absorption of cobalt at hard-x-ray energies. Physical Review A, 2019, 99, . | 1.0 | 3 |
| 125 | Operando sulfur speciation during sulfur poisoning-regeneration of Ru/SiO2 and Ru/Al2O3 using non-resonant sulfur KÎ±1,2 emission. RSC Advances, 2020, 10, 15853-15859. | 1.7 | 3 |
| 126 | Low-Angle X-Ray Spectroscopy and Reflectometry Techniques in Interdisciplinary Applications. Acta Physica Polonica A, 2021, 139, 247-256. | 0.2 | 3 |

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| 127 | Microliter-stirred sample setup for X-ray spectroscopy analysis of nanomaterials in suspension. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 189, 106367. | 1.5 | 3 |
| 128 | Techniques: RXES, HR-ÂXAS, HEROS, GIXRF, and GEXRF. , 2014, , 59-116. | | 2 |
| 129 | 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 |
| 130 | In situobservation of charge transfer and crystal field formationviahigh energy resolution X-ray spectroscopy during temperature programmed oxidation. Physical Chemistry Chemical Physics, 2020, 22, 14731-14735. | 1.3 | 2 |
| 131 | Femtosecond X-ray spectroscopy of haem proteins. Faraday Discussions, 2021, 228, 312-328. | 1.6 | 2 |
| 132 | Olefin Hydrogenation with Single-Site Gold. Acta Physica Polonica A, 2014, 125, 940-943. | 0.2 | 2 |
| 133 | Approaching the Attosecond Frontier of Dynamics in Matter with the Concept of X-ray Chronoscopy. Applied Sciences (Switzerland), 2022, 12, 1721. | 1.3 | 2 |
| 134 | STATE-SELECTIVE X-RAY STUDY OF THE RADIATIVE RECOMBINATION OF U92+ IONS WITH COOLING ELECTRONS. , 2006, , . | | 1 |
| 135 | Double K-shell photoionization of low-Z atoms and He-like ions. European Physical Journal: Special Topics, 2009, 169, 23-27. | 1.2 | 1 |
| 136 | Observation of enhancement in K-shell radiative recombination of U<sup>92+</sup>ions with cooling electrons. Journal of Physics: Conference Series, 2009, 194, 062017. | 0.3 | 1 |
| 137 | Single-photon double K-shell ionization of low-Z atoms. Journal of Physics: Conference Series, 2010, 212, 012006. | 0.3 | 1 |
| 138 | Hydrodechlorination Using Pdâ€“Au Nanoparticles to Convert Chloro-Containing Compounds to Useful Chemicals. , 2016, , . | | 1 |
| 139 | In situ high energy resolution off-resonant spectroscopy applied to a time-resolved study of single site Ta catalyst during oxidation. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 63-67. | 0.6 | 1 |
| 140 | Preliminary results of human PrP C protein studied by spectroscopic techniques. Nuclear Instruments & Methods in Physics Research B, 2017, 411, 121-128. | 0.6 | 1 |
| 141 | Xâ€Ray Spectroscopy on Biological Systems. , 0, , . | | 1 |
| 142 | Resonant X-ray Emission Spectroscopy with a SASE Beam. Applied Sciences (Switzerland), 2021, 11, 8775. | 1.3 | 1 |
| 143 | Double K-shell photoionization and universal scaling laws. Journal of Physics: Conference Series, 2009, 194, 022040. | 0.3 | 0 |
| 144 | Enhanced radiative recombination of U92+ions with cooling electrons for the K-shell. Journal of Physics: Conference Series, 2012, 388, 062044. | 0.3 | 0 |

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| 145 | Time-resolved X-ray absorption and emission spectroscopy on ZnO nanoparticles in solution. , 2014, , . | | 0 |
| 146 | Two-photon absorption using off-resonant excitation with ultrashort X-ray pulses. Journal of Physics: Conference Series, 2015, 635, 092147. | 0.3 | 0 |
| 147 | Novel reference-free methods for the determination of the instrumental response of Laue-type bent crystal spectrometers. Journal of Analytical Atomic Spectrometry, 2019, 34, 2325-2332. | 1.6 | 0 |
| 148 | Enhanced polarization transfer to the characteristic LÎ± x-ray lines near the nonlinear Cooper minimum of two-photon ionization. Physical Review A, 2020, 102, . | 1.0 | 0 |
| 149 | Pulsed laser-plasma soft X-ray source as a compact tool for X-ray absorption spectroscopy of metal oxides. Journal of Instrumentation, 2020, 15, C05026-C05026. | 0.5 | 0 |
| 150 | Femtosecond X-ray Absorption and Emission Spectroscopy on ZnO Nanoparticles in Solution. , 2016, , . | | 0 |
| 151 | Synchrotron and X-Ray Free Electron Laser Studies of High-Valent Iron Formation with X-ray Absorption Spectroscopy. , 2016, , . | | 0 |
| 152 | Femtosecond Molecular Flattening in [Cu(dmp)2]+ Probed by X-ray Emission Spectroscopy and Solution Scattering. , 2020, , . | | 0 |