

Stephen Bouters

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

338
citations

759233

12
h-index

839539

18
g-index

23
all docs

23
docs citations

23
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray spectroscopic study of chemical state in uranium carbides. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 295-302.	2.4	5
2	To form or not to form: PuO ₂ nanoparticles at acidic pH. <i>Environmental Science: Nano</i> , 2022, 9, 1509-1518.	4.3	7
3	Insights into the Electronic Structure of a U(IV) Amido and U(V) Imido Complex. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	7
4	High Surface Area 3D Graphene Oxide for Enhanced Sorption of Radionuclides. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	7
5	Insight into the structure-property relationship of UO ₂ nanoparticles. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1102-1110.	6.0	12
6	Laboratory and synchrotron X-ray spectroscopy. , 2021, , 287-334.		0
7	Signatures of technetium oxidation states: a new approach. <i>Chemical Communications</i> , 2020, 56, 9608-9611.	4.1	8
8	An X-ray ray tracing simulation code for mono- and polycapillaries: Description, advances and application. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 173, 105974.	2.9	7
9	A multi-technique study of altered granitic rock from the Krunkelbach Valley uranium deposit, Southern Germany. <i>RSC Advances</i> , 2020, 10, 25529-25539.	3.6	3
10	Synthesis, Structural, and Electronic Properties of K ₄ PuVIO ₂ (CO ₃) ₃ (cr): An Environmentally Relevant Plutonium Carbonate Complex. <i>Inorganic Chemistry</i> , 2020, 59, 11889-11893.	4.0	7
11	Enhanced Sorption of Radionuclides by Defect-Rich Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45122-45135.	8.0	50
12	The missing pieces of the PuO ₂ nanoparticle puzzle. <i>Nanoscale</i> , 2020, 12, 18039-18048.	5.6	28
13	Towards the surface hydroxyl species in CeO ₂ nanoparticles. <i>Nanoscale</i> , 2019, 11, 18142-18149.	5.6	41
14	Polycapillary Optics Based Confocal Micro X-ray Fluorescence and X-ray Absorption Spectroscopy Setup at The European Synchrotron Radiation Facility Collaborative Research Group Dutch-Belgian Beamline, BM26A. <i>Analytical Chemistry</i> , 2018, 90, 2389-2394.	6.5	12
15	Reclaiming the image of daguerreotypes: Characterization of the corroded surface before and after atmospheric plasma treatment. <i>Journal of Cultural Heritage</i> , 2017, 28, 56-64.	3.3	20
16	Tracking ink composition on Herculaneum papyrus scrolls: quantification and speciation of lead by X-ray based techniques and Monte Carlo simulations. <i>Scientific Reports</i> , 2016, 6, 20763.	3.3	33
17	The corrosion process of sterling silver exposed to a Na ₂ S solution: monitoring and characterizing the complex surface evolution using a multi-analytical approach. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	15
18	Confocal depth-resolved micro-X-ray absorption spectroscopy study of chemically strengthened borosilicate glasses. <i>RSC Advances</i> , 2016, 6, 24060-24065.	3.6	3

#	ARTICLE	IF	CITATIONS
19	Methodological challenges of optical tweezers-based X-ray fluorescence imaging of biological model organisms at synchrotron facilities. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1096-1105.	2.4	5
20	In vivo X-ray elemental imaging of single cell model organisms manipulated by laser-based optical tweezers. <i>Scientific Reports</i> , 2015, 5, 9049.	3.3	14
21	Development and Applications of a Laboratory Micro X-ray Fluorescence (μ XRF) Spectrometer Using Monochromatic Excitation for Quantitative Elemental Analysis. <i>Analytical Chemistry</i> , 2015, 87, 6544-6552.	6.5	21
22	Full-Field Fluorescence Mode Micro-XANES Imaging Using a Unique Energy Dispersive CCD Detector. <i>Analytical Chemistry</i> , 2014, 86, 8791-8797.	6.5	18
23	Evaluation of pneumatic nebulization and ns-laser ablation ICP-MS for bulk elemental analysis and 2-dimensional element mapping of iron meteorites. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1001-1016.	3.0	15