## Konstantin Ignatyev

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6672321/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. Science, 2006, 314, 1731-1735.	12.6	200
3	Phase and absorption retrieval using incoherent X-ray sources. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13922-13927.	7.1	124
4	Metal Tolerance Protein 8 Mediates Manganese Homeostasis and Iron Reallocation during Seed Development and Germination. Plant Physiology, 2017, 174, 1633-1647.	4.8	99
5	The relationship between wave and geometrical optics models of coded aperture type x-ray phase contrast imaging systems. Optics Express, 2010, 18, 4103.	3.4	52
6	Noninterferometric phase-contrast images obtained with incoherent x-ray sources. Applied Optics, 2011, 50, 1765.	2.1	51
7	Visualization of small lesions in rat cartilage by means of laboratory-based x-ray phase contrast imaging. Physics in Medicine and Biology, 2012, 57, 8173-8184.	3.0	50
8	Synchrotron imaging reveals bone healing and remodelling strategies in extinct and extant vertebrates. Journal of the Royal Society Interface, 2014, 11, 20140277.	3.4	47
9	Source size and temporal coherence requirements of coded aperture type x-ray phase contrast imaging systems. Optics Express, 2010, 18, 19681.	3.4	37
10	Pheomelanin pigment remnants mapped in fossils of an extinct mammal. Nature Communications, 2019, 10, 2250.	12.8	30
11	The mapping and differentiation of biological and environmental elemental signatures in the fossil remains of a 50 million year old bird. Journal of Analytical Atomic Spectrometry, 2015, 30, 627-634.	3.0	28
12	A quantitative, non-interferometric X-ray phase contrast imaging technique. Optics Express, 2013, 21, 647.	3.4	27
13	Distinct chemical and mineralogical composition of Icelandic dust compared to northern African and Asian dust. Atmospheric Chemistry and Physics, 2020, 20, 13521-13539.	4.9	26
14	Recovering the elemental composition of comet Wild 2 dust in five Stardust impact tracks and terminal particles in aerogel. Meteoritics and Planetary Science, 2008, 43, 215-231.	1.6	24
15	<i>In situ</i> synchrotron XAS study of the decomposition kinetics of ZDDP triboreactive interfaces. RSC Advances, 2018, 8, 34168-34181.	3.6	24
16	Design of a novel phase contrast x-ray imaging system for mammography. Physics in Medicine and Biology, 2010, 55, 4169-4185.	3.0	18
17	Proof-of-concept demonstration of edge-illumination x-ray phase contrast imaging combined with tomosynthesis. Physics in Medicine and Biology, 2014, 59, N1-N10.	3.0	17
18	Iron from coal combustion particles dissolves much faster than mineral dust under simulated atmospheric acidic conditions. Atmospheric Chemistry and Physics, 2022, 22, 6045-6066.	4.9	11

#	Article	IF	CITATIONS
19	A New Generation of X-ray Baggage Scanners Based on a Different Physical Principle. Materials, 2011, 4, 1846-1860.	2.9	8
20	Micro-scale geochemical and crystallographic analysis of Buccinum undatum statoliths supports an annual periodicity of growth ring deposition. Chemical Geology, 2019, 526, 153-164.	3.3	7
21	First X-ray Fluorescence MicroCT Results from Micrometeorites at SSRL. AIP Conference Proceedings, 2007, , .	0.4	3
22	"Edge illumination" in X-ray Phase Contrast Imaging. , 2012, , .		3
23	Tribochemistry evolution of DDP tribofilms over time using in-situ synchrotron XAS. Tribology International, 2021, 160, 107026.	5.9	3
24	Limitations imposed by specimen phase gradients on the design of grating based x-ray phase contrast imaging systems. Applied Optics, 2010, 49, 3860.	2.1	2
25	Geochemical investigations of noble metal-bearing ores: Synchrotron-based micro-analyses and microcosm bioleaching studies. Chemosphere, 2021, 270, 129388.	8.2	2
26	XRF microCT study of space objects at SSRL. , 2006, , .		1
27	Analytical methods for discriminating stardust in aerogel capture media. Powder Diffraction, 2008, 23, 81-86.	0.2	1
28	Design of a novel phase contrast X-ray imaging system for mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 824-828.	1.6	1
29	First X-ray phase contrast images obtained with conventional X-ray source under exposure conditions compatible with real-world applications. , 2010, , .		Ο