

# Aliaksandr Baidak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/987822/publications.pdf>

Version: 2024-02-01

18  
papers

214  
citations

933447

10  
h-index

1058476

14  
g-index

18  
all docs

18  
docs citations

18  
times ranked

367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of 2D anatase TiO <sub>2</sub> with highly reactive facets by fluorine-free topochemical conversion of 1T-TiS <sub>2</sub> nanosheets. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13884-13894.	10.3	7
2	Gamma Radiation-Induced Oxidation, Doping, and Etching of Two-Dimensional MoS <sub>2</sub> Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4211-4222.	3.1	22
3	First observation of radiolytic bubble formation in unstirred nano-powder sludges and a consistent model thereof. <i>Scientific Reports</i> , 2021, 11, 22882.	3.3	2
4	Resurgence of a Nation's Radiation Science Driven by Its Nuclear Industry Needs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11081.	2.5	2
5	Effect of ionising radiation on the mechanical and structural properties of 3D printed plastics. <i>Additive Manufacturing</i> , 2020, 31, 100907.	3.0	25
6	Photon-induced synthesis of ultrafine metal nanoparticles on graphene as electrocatalysts: impact of functionalization and doping. <i>Journal of Materials Chemistry A</i> , 2020, 8, 714-723.	10.3	15
7	Recent advances in green synthesis and modification of inorganic nanomaterials by ionizing and non-ionizing radiation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23029-23058.	10.3	17
8	The influence of crystal thickness and interlayer interactions on the properties of heavy ion irradiated MoS <sub>2</sub> . <i>2D Materials</i> , 2020, 7, 035011.	4.4	6
9	Inulinase immobilization on polyethylene glycol/polypyrrole multiwall carbon nanotubes producing a catalyst with enhanced thermal and operational stability. <i>Engineering in Life Sciences</i> , 2019, 19, 617-630.	3.6	9
10	Charge-tunable graphene dispersions in water made with amphoteric pyrene derivatives. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 503-510.	3.4	13
11	Alpha particle irradiation of bulk and exfoliated MoS <sub>2</sub> and WS <sub>2</sub> membranes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 435, 180-189.	1.4	4
12	Removal of Cs, Sr, U and Pu species from simulated nuclear waste effluent using graphene oxide. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 93-102.	1.5	10
13	Elucidating the Impact of Molecular Packing and Device Architecture on the Performance of Nanostructured Perylene Diimide Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8687-8698.	8.0	26
14	Phosphorimetric Characterization of Solution-Processed Polymeric Oxygen Barriers for the Encapsulation of Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2361-2369.	3.1	11
15	Role of the Low-Energy Excited States in the Radiolysis of Aromatic Liquids. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7418-7427.	2.5	13
16	Radiation-induced decomposition of anion exchange resins. <i>Journal of Nuclear Materials</i> , 2010, 407, 211-219.	2.7	20
17	Ionization of Amino-, Thio- and Hydroxy-napthalenes via Free (Unhindered) Electron Transfer. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11036-11043.	2.5	6
18	Kinetic and Energetic Analysis of the Free Electron Transfer. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10200-10209.	2.5	6