

# Mohammed

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9884968/publications.pdf>

Version: 2024-02-01

15  
papers

609  
citations

759233

12  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ag <sub>2</sub> O/V <sub>2</sub> O <sub>5</sub> substitution on the radiation shielding ability of tellurite glass system via XCOM approach and FLUKA simulations. <i>Physica Scripta</i> , 2021, 96, 065308.	2.5	84
2	Polarizability, Optical Basicity, and Photon Attenuation Properties of Ag <sub>2</sub> O-MoO <sub>3</sub> -V <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> Glasses: The Role of Silver Oxide. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 1047-1056.	3.7	74
3	The Effects of TeO <sub>2</sub> on Polarizability, Optical Transmission, and Photon/Neutron Attenuation Properties of Boro-Zinc-Tellurite Glasses. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 2331-2338.	3.7	69
4	Spectroscopic and Attenuation Shielding Studies on B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -LiF- ZnO-TiO <sub>2</sub> Glasses. <i>Silicon</i> , 2022, 14, 3091-3100.	3.3	61
5	Newly developed glasses containing Si/Cd/Li/Gd and their high performance for radiation applications: role of Er <sub>2</sub> O <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9440-9451.	2.2	55
6	Role of heavy metal oxides on the radiation attenuation properties of newly developed TBBE-X glasses by computational methods. <i>Physica Scripta</i> , 2021, 96, 075302.	2.5	55
7	Synthesis, optical, and radiation attenuation properties of CaF <sub>2</sub> -TeO <sub>2</sub> -Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> -CuO glass system for advanced shielding applications. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	43
8	Synthesis, thermal, optical, mechanical and radiation-attenuation characteristics of borate glass system modified by Bi <sub>2</sub> O <sub>3</sub> /MgO. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	43
9	An important role of Ba <sup>2+</sup> , Sr <sup>2+</sup> , Mg <sup>2+</sup> , and Zn <sup>2+</sup> in the radiation attenuation performance of CFCBPC bioactive glasses. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 461-473.	1.9	42
10	Simultaneously enhanced efficiency of eco-friendly structural characterization of the dithienocyclopentacarbazole donor based acceptors with narrow bandgap for high-performance organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 235501.	2.8	26
11	Optical and gamma-ray absorption features of newly developed P <sub>2</sub> O <sub>5</sub> -Ce <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> glass system. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	17
12	Gamma, neutron, and charged-particles shielding properties of tellurite glass system containing Sb <sub>2</sub> O <sub>3</sub> and V <sub>2</sub> O <sub>5</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28275-28286.	2.2	14
13	The significant role of CeO <sub>2</sub> content on the radiation shielding performance of Fe <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> glass-ceramics: Geant4 simulations study. <i>Physica Scripta</i> , 2021, 96, 115305.	2.5	11
14	Photocatalytic activity of hierarchical CTAB-assisted TiO <sub>2</sub> nanoparticles for polluted water treatment using solar light illumination. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	8
15	Fabrication and characterization of Th(MoO <sub>4</sub> ) <sub>2</sub> /TiO <sub>2</sub> nanocomposite for potential use in photocatalytic degradation of toxic pollutants. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	7