

Petr Kostka

List of Publications by Year in descending order

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33
papers

485
citations

759233

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35
all docs

35
docs citations

35
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal oxide glasses: preparation and physical properties. Journal of Non-Crystalline Solids, 2001, 284, 288-295.	3.1	128
2	Investigation of radiation shielding properties for MeO-PbCl ₂ -TeO ₂ (MeO = Bi ₂ O ₃ , MoO ₃ , Sb ₂ O ₃), Tj ETQq0 0 0 rgBT /Overlock	2.8	48
3	Photoluminescence study of Er-doped zinc-sodium-antimonite glasses. Journal of Alloys and Compounds, 2014, 611, 111-116.	5.5	30
4	Preparation and characterization of sulfide, selenide and telluride glasses. Journal of Non-Crystalline Solids, 2003, 326-327, 47-52.	3.1	22
5	Preparation and optical characterization of PbCl ₂ -Sb ₂ O ₃ -TeO ₂ glasses doped with rare earth elements. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1821-1826.	1.8	21
6	Electrical, dielectric, and optical properties of Sb ₂ O ₃ -Li ₂ O-MoO ₃ glasses. Journal of Non-Crystalline Solids, 2015, 428, 42-48.	3.1	21
7	Glass formation in the Sb ₂ O ₃ -ZnBr ₂ binary system. Journal of Physics and Chemistry of Solids, 2004, 65, 901-906.	4.0	19
8	Investigation of Ge based chalcogenide glasses doped with Er, Pr and Ho. Journal of Non-Crystalline Solids, 2010, 356, 2355-2359.	3.1	18
9	Calculation and analysis of vibrational spectra of PbCl ₂ -Sb ₂ O ₃ -TeO ₂ glass from first principles. Journal of Non-Crystalline Solids, 2011, 357, 2562-2570.	3.1	16
10	Influence of composition and preparation conditions on some physical properties of TeO ₂ -Sb ₂ O ₃ -PbCl ₂ Glasses. Journal of Non-Crystalline Solids, 2013, 377, 74-78.	3.1	14
11	Preparation and characterization of telluride glasses. Journal of Non-Crystalline Solids, 2008, 354, 486-491.	3.1	13
12	Low-temperature photoluminescence in chalcogenide glasses doped with rare-earth ions. Journal of Alloys and Compounds, 2015, 648, 237-243.	5.5	12
13	Investigating the influence of transition metal oxides on temperature dependent optical properties of PbCl ₂ -TeO ₂ glasses for their evaluation as transparent large band gap semiconductors. Journal of Alloys and Compounds, 2018, 748, 687-693.	5.5	12
14	Electro-optical characterization of Ge-Se-Te glasses. Journal of Non-Crystalline Solids, 2009, 355, 2083-2087.	3.1	11
15	Optical properties of As ₂ S ₃ layers deposited from solutions. Journal of Non-Crystalline Solids, 2016, 431, 47-51.	3.1	11
16	Investigation of Er doped zinc borate glasses by low-temperature photoluminescence. Journal of Luminescence, 2017, 192, 1104-1109.	3.1	11
17	Er-doped antimonite Sb ₂ O ₃ -PbO-ZnO/ZnS glasses studied by low-temperature photoluminescence spectroscopy. Journal of Alloys and Compounds, 2019, 780, 866-872.	5.5	11
18	Luminescence, up-conversion and temperature sensing in Er-doped TeO ₂ -PbCl ₂ -WO ₃ glasses. Journal of Non-Crystalline Solids, 2021, 553, 120287.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Preparation of Leucite Based Materials. Solid State Phenomena, 2003, 90-91, 377-382.	0.3	9
20	Investigation of electrical and optical properties of Ge ²⁺ Ga ³⁺ As ³⁺ S glasses doped with rare-earth ions. Journal of Non-Crystalline Solids, 2013, 377, 85-89.	3.1	9
21	Glasses based on TeO ₂ and Pb ²⁺ : preparation and characterization. Journal of Non-Crystalline Solids, 2003, 326-327, 42-46.	3.1	8
22	Glass Formation in the PbCl ₂ -Sb ₂ O ₃ -TeO ₂ System. Solid State Phenomena, 2003, 90-91, 235-240.	0.3	7
23	Synthesis and characterization of an amorphous precursor for leucite dental ceramics. Journal of Non-Crystalline Solids, 2008, 354, 741-748.	3.1	6
24	Local atomic structure and electrical properties of Ge ₂₀ Se _{80-x} Te _x (x=0, 5, 10, and 15) glasses doped with Ho. Journal of Alloys and Compounds, 2014, 586, 308-313.	5.5	5
25	Electro-optic glass for light modulators. Journal of Non-Crystalline Solids, 2019, 518, 51-56.	3.1	4
26	Temperature sensing down to 4 K with erbium-doped tellurite glasses. Journal of Non-Crystalline Solids, 2022, 575, 121183.	3.1	3
27	Influence of NaI Additions on the Electrical, Dielectric, and Transport Properties in the GeS ₂ -Ga ₂ S ₃ -NaI Glass System. Russian Journal of Electrochemistry, 2019, 55, 501-509.	0.9	2
28	Etude de la devitrification des verres Sb ₂ O ₃ -PbI ₂ . Annales De Chimie: Science Des Materiaux, 2009, 34, 249-266.	0.4	2
29	Optical fibers of As ₂ S ₃ glasses: preparation and characterization. Proceedings of SPIE, 2015, , .	0.8	1
30	Photoluminescence properties of Er ³⁺ -doped Ge ²⁺ In(Ga) ³⁺ S glasses modified by caesium halides. Physica Status Solidi (B): Basic Research, 2017, 254, 1600662.	1.5	1
31	Photoluminescence of some chalcogenide glasses doped with rare-earth ions. , 2015, , .		0
32	Electrical and Dielectric Properties of Sb ₂ O ₃ -PbCl ₂ -AgCl Glass System. Russian Journal of Electrochemistry, 2021, 57, 681-687.	0.9	0
33	Experimental and Simulation of Electric Transport in Alkali Antimonite Glasses. Russian Journal of Electrochemistry, 2021, 57, 688-699.	0.9	0