

Op Pandey

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12171460/publications.pdf>

Version: 2024-02-01

44
papers

1,765
citations

257450

24
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

1892
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of bioactive glasses: Their structure, properties, fabrication and apatite formation. Journal of Biomedical Materials Research - Part A, 2014, 102, 254-274.	4.0	440
2	Effect of dual reinforced ceramic particles on high temperature tribological properties of aluminum composites. Ceramics International, 2013, 39, 6333-6342.	4.8	119
3	Effect of modifiers field strength on optical, structural and mechanical properties of lanthanum borosilicate glasses. Journal of Non-Crystalline Solids, 2012, 358, 2589-2596.	3.1	87
4	Effect of particle size on dry sliding wear behaviour of sillimanite reinforced aluminium matrix composites. Ceramics International, 2018, 44, 104-114.	4.8	87
5	Non-isothermal crystallization kinetics of ZnO-BaO-B ₂ O ₃ -SiO ₂ glass. Journal of Non-Crystalline Solids, 2008, 354, 3944-3951.	3.1	57
6	Influence of CdO and gamma irradiation on the infrared absorption spectra of borosilicate glass. Journal of Molecular Structure, 2013, 1049, 409-413.	3.6	56
7	Thermal and physical properties of 30SrO-40SiO ₂ -20B ₂ O ₃ -10A ₂ O ₃ (A = La, Y, Al) glasses and their chemical reaction with bismuth vanadate for SOFC. Solid State Ionics, 2010, 181, 79-85.	2.7	49
8	Synergistic Effect of Metal Nanoparticles on the Antimicrobial Activities of Antibiotics against Biorecycling Microbes. Journal of Materials Science and Technology, 2016, 32, 524-532.	10.7	46
9	Reduction of WO ₃ to nano-WC by thermo-chemical reaction route. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 677-684.	2.7	44
10	Wear studies of hybrid AMCs reinforced with naturally occurring sillimanite and rutile ceramic particles for brake-rotor applications. Ceramics International, 2020, 46, 16849-16859.	4.8	40
11	Structural and optical properties of barium borosilicate glasses. Physica B: Condensed Matter, 2010, 405, 204-207.	2.7	37
12	Interfacial study between high temperature SiO ₂ -B ₂ O ₃ -AO-La ₂ O ₃ (A= Sr, Ba) glass seals and Crofer 22APU for solid oxide fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 6862-6874.	7.1	36
13	Effect of A ₂ O ₃ (A=La, Y, Cr, Al) on thermal and crystallization kinetics of borosilicate glass sealants for solid oxide fuel cells. Ceramics International, 2010, 36, 1621-1628.	4.8	35
14	Ionic conductivity, structural and thermal properties of pure and Sr ²⁺ doped Y ₂ Ti ₂ O ₇ pyrochlores for SOFC. Solid State Sciences, 2011, 13, 1960-1966.	3.2	35
15	Thermal, structural and crystallization kinetics of SiO ₂ -BaO-ZnO-B ₂ O ₃ -Al ₂ O ₃ glass samples as a sealant for SOFC. International Journal of Hydrogen Energy, 2011, 36, 14948-14955.	7.1	34
16	Single step synthesis of nano vanadium carbide-V ₈ C ₇ phase. International Journal of Refractory Metals and Hard Materials, 2013, 36, 106-110.	3.8	33
17	A growth kinetic study of ultrafine monodispersed silver nanoparticles. RSC Advances, 2013, 3, 1127.	3.6	31
18	Crystallization kinetics of BaO-ZnO-Al ₂ O ₃ -B ₂ O ₃ -SiO ₂ glass. Physica B: Condensed Matter, 2008, 403, 1738-1746.	2.7	30

#	ARTICLE	IF	CITATIONS
19	Optimization of processing parameters for the synthesis of tungsten carbide (WC) nanoparticles through solvo thermal route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2477-2483.	2.7	30
20	Thermal and crystallization kinetics of yttrium and lanthanum calcium silicate glass sealants for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14971-14976.	7.1	30
21	Gamma ray irradiation effects on the optical properties of BaO-Na ₂ O-B ₂ O ₃ -SiO ₂ glasses. <i>Journal of Molecular Structure</i> , 2013, 1048, 78-82.	3.6	30
22	Analysis of wear track and debris of stir cast LM13/Zr composite at elevated temperatures. <i>Materials Characterization</i> , 2013, 75, 200-213.	4.4	29
23	Single step synthesis of tungsten carbide (WC) nanoparticles from scheelite ore. <i>Ceramics International</i> , 2013, 39, 6703-6706.	4.8	28
24	Chemical interaction study between lanthanum based different alkaline earth glass sealants with Crofer 22 APU for solid oxide fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3883-3889.	7.1	27
25	Structural and ionic conductive properties of Bi ₄ V ₂ xTi _x O ₁₁ (0 ≤ x ≤ 0.4) compound. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 158, 63-68.	3.5	24
26	Structural and thermal properties of glass composite seals and their chemical compatibility with Crofer 22APU for solid oxide fuel cells applications. <i>Journal of Power Sources</i> , 2013, 240, 458-470.	7.8	24
27	Non-isothermal crystallization kinetics of K ₂ O modified sodium-phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 440, 76-84.	3.1	23
28	Influence of CaO/MgO ratio on the crystallization kinetics and interfacial compatibility with crofer 22APU and YSZ of strontium based alumino-borosilicate glasses for SOFC applications. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16244-16257.	7.1	20
29	UV-vis spectroscopic studies of gamma irradiated lead sodium borosilicate glasses. <i>Journal of Molecular Structure</i> , 2014, 1060, 251-255.	3.6	19
30	Synthesis and characterization of 50BaO - (5-x) Al ₂ O ₃ - xR ₂ O ₃ - 30B ₂ O ₃ - 15SiO ₂ (R = Nd, Gd) glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2020, 535, 119956.	3.1	19
31	Structural, thermal and crystallization kinetics of ZnO-BaO-SiO ₂ -B ₂ O ₃ -Mn ₂ O ₃ based glass sealants for solid oxide fuel cells. <i>Ceramics International</i> , 2011, 37, 2101-2107.	4.8	18
32	Microstructural study of Crofer 22 APU-glass interface for SOFC application. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3839-3847.	7.1	17
33	Structural variation in gamma ray irradiated PbO-Na ₂ O-B ₂ O ₃ -SiO ₂ glasses. <i>Solid State Communications</i> , 2014, 188, 40-44.	1.9	17
34	Study on single step solid state synthesis of WC@C nanocomposite and electrochemical stability of synthesized WC@C & Pt/WC@C for alcohol oxidation (methanol/ethanol). <i>Journal of Alloys and Compounds</i> , 2016, 665, 186-196.	5.5	16
35	Chemical compatibility between MgO-SiO ₂ -B ₂ O ₃ -La ₂ O ₃ glass sealant and low, high temperature electrolytes for solid oxide fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17235-17244.	7.1	15
36	Influence of antibiotic adsorption on biocidal activities of silver nanoparticles. <i>IET Nanobiotechnology</i> , 2016, 10, 69-74.	3.8	14

#	ARTICLE	IF	CITATIONS
37	Structure and crystallization kinetics of Li ₂ O modified sodium-phosphate glasses. Journal of Molecular Structure, 2015, 1094, 174-182.	3.6	12
38	Correlation of Reinforced Ceramicparticle's Nature and Size with Microstructure and Wear Behavior of Al-Si Alloy Composite. Advanced Materials Research, 0, 585, 564-568.	0.3	11
39	Structural Investigation of Catalytically Grown Carbon Nanotubes. Materials and Manufacturing Processes, 2016, 31, 989-994.	4.7	10
40	Rare earth added barium alumino borosilicate glass-ceramics as sealants in solid oxide fuel cells. Journal of Non-Crystalline Solids, 2022, 576, 121242.	3.1	10
41	Simulation of thermal stress within diffusion couple of composite seals with Crofer 22APU for solid oxide fuel cells applications. Journal of Power Sources, 2013, 242, 305-313.	7.8	7
42	Structural and growth kinetics of in-situ reduced V ₂ O ₅ . International Journal of Refractory Metals and Hard Materials, 2014, 46, 90-95.	3.8	7
43	Influence of modifier on dielectric and ferroelectric properties of aluminosilicate glasses. Journal of Non-Crystalline Solids, 2017, 465, 26-30.	3.1	6
44	Microstructural analysis of glass-steel interface. Surface and Coatings Technology, 2013, 217, 156-161.	4.8	3