

Op Pandey

List of Publications by Year in descending order

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44
papers

1,765
citations

257450

24
h-index

265206

42
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45
all docs

45
docs citations

45
times ranked

1892
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Synthesis and characterization of $50\text{BaO} - (5-x)\text{Al}_2\text{O}_3 - x\text{R}_2\text{O}_3 - 30\text{B}_2\text{O}_3 - 15\text{SiO}_2$ ($\text{R}=\text{Nd, Gd}$) glass-ceramics. Journal of Non-Crystalline Solids, 2020, 535, 119956.	3.1	19
3	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
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	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. International Journal of Hydrogen Energy, 2017, 42, 16244-16257.	7.1	20
6	Influence of modifier on dielectric and ferroelectric properties of aluminosilicate glasses. Journal of Non-Crystalline Solids, 2017, 465, 26-30.	3.1	6
7	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
8	Non-isothermal crystallization kinetics of K_2O modified sodium-phosphate glasses. Journal of Non-Crystalline Solids, 2016, 440, 76-84.	3.1	23
9	Influence of antibiotic adsorption on biocidal activities of silver nanoparticles. IET Nanobiotechnology, 2016, 10, 69-74.	3.8	14
10	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). Journal of Alloys and Compounds, 2016, 665, 186-196.	5.5	16
11	Structural Investigation of Catalytically Grown Carbon Nanotubes. Materials and Manufacturing Processes, 2016, 31, 989-994.	4.7	10
12	Structure and crystallization kinetics of Li_2O modified sodium-phosphate glasses. Journal of Molecular Structure, 2015, 1094, 174-182.	3.6	12
13	Structural variation in gamma ray irradiated $\text{PbO}-\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$ glasses. Solid State Communications, 2014, 188, 40-44.	1.9	17
14	UV-vis spectroscopic studies of gamma irradiated lead sodium borosilicate glasses. Journal of Molecular Structure, 2014, 1060, 251-255.	3.6	19
15	Structural and growth kinetics of in-situ reduced V_2O_5 . International Journal of Refractory Metals and Hard Materials, 2014, 46, 90-95.	3.8	7
16	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
17	A growth kinetic study of ultrafine monodispersed silver nanoparticles. RSC Advances, 2013, 3, 1127.	3.6	31
18	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

#	ARTICLE	IF	CITATIONS
19	Single step synthesis of tungsten carbide (WC) nanoparticles from scheelite ore. <i>Ceramics International</i> , 2013, 39, 6703-6706.	4.8	28
20	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
21	Simulation of thermal stress within diffusion couple of composite seals with Crofer 22APU for solid oxide fuel cells applications. <i>Journal of Power Sources</i> , 2013, 242, 305-313.	7.8	7
22	Effect of dual reinforced ceramic particles on high temperature tribological properties of aluminum composites. <i>Ceramics International</i> , 2013, 39, 6333-6342.	4.8	119
23	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
24	Single step synthesis of nano vanadium carbide-V ₈ C ₇ phase. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 36, 106-110.	3.8	33
25	Microstructural analysis of glass-steel interface. <i>Surface and Coatings Technology</i> , 2013, 217, 156-161.	4.8	3
26	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
27	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
28	Effect of modifiers field strength on optical, structural and mechanical properties of lanthanum borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2589-2596.	3.1	87
29	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
30	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
31	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. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6862-6874.	7.1	36
32	Ionic conductivity, structural and thermal properties of pure and Sr ²⁺ doped Y ₂ Ti ₂ O ₇ pyrochlores for SOFC. <i>Solid State Sciences</i> , 2011, 13, 1960-1966.	3.2	35
33	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. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14948-14955.	7.1	34
34	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
35	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
36	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. <i>Ceramics International</i> , 2010, 36, 1621-1628.	4.8	35

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37	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
38	Structural and optical properties of barium borosilicate glasses. <i>Physica B: Condensed Matter</i> , 2010, 405, 204-207.	2.7	37
39	Thermal and physical properties of $30\text{SrO} \cdot 40\text{SiO}_2 \cdot 20\text{B}_2\text{O}_3 \cdot 10\text{A}_2\text{O}_3$ (A = La, Y, Al) glasses and their chemical reaction with bismuth vanadate for SOFC. <i>Solid State Ionics</i> , 2010, 181, 79-85.	2.7	49
40	Structural and ionic conductive properties of $\text{Bi}_4\text{V}_2\text{xTi}_x\text{O}_{11}$ ($0 \leq x \leq 0.4$) compound. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 158, 63-68.	3.5	24
41	Reduction of WO_3 to nano-WC by thermo-chemical reaction route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 677-684.	2.7	44
42	Crystallization kinetics of $\text{BaO} \cdot \text{ZnO} \cdot \text{Al}_2\text{O}_3 \cdot \text{B}_2\text{O}_3 \cdot \text{SiO}_2$ glass. <i>Physica B: Condensed Matter</i> , 2008, 403, 1738-1746.	2.7	30
43	Non-isothermal crystallization kinetics of $\text{ZnO} \cdot \text{BaO} \cdot \text{B}_2\text{O}_3 \cdot \text{SiO}_2$ glass. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3944-3951.	3.1	57
44	Correlation of Reinforced Ceramicparticle™s Nature and Size with Microstructure and Wear Behavior of Al-Si Alloy Composite. <i>Advanced Materials Research</i> , 0, 585, 564-568.	0.3	11