Narottam P Bansal, Ph D

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10412863/publications.pdf

Version: 2024-02-01

61 papers	3,356 citations	147801 31 h-index	149698 56 g-index
76 all docs	76 docs citations	76 times ranked	1796 citing authors

#	Article	IF	Citations
1	Thermochemical degradation of HfSiO4 by molten CMAS. Ceramics International, 2022, 48, 16499-16504.	4.8	3
2	Thermochemistry of calcium rareâ€earth silicate oxyapatites. Journal of the American Ceramic Society, 2020, 103, 1446-1453.	3.8	36
3	Molten calciumâ€“magnesiumâ€“aluminosilicate interactions with ytterbium disilicate environmental barrier coating. Journal of Materials Research, 2020, 35, 2346-2357.	2.6	9
4	Characterization of Thermochemical and Thermomechanical Properties of EyjafjallajÃ¶kull Volcanic Ash Glass. Coatings, 2020, 10, 100.	2.6	18
5	Calciumâ€“magnesium aluminosilicate (CMAS) interactions with ytterbium silicate environmental barrier coating material at elevated temperatures. Ceramics International, 2020, 46, 16733-16742.	4.8	28
6	Thermochemical interactions between CMAS and Ca2Y8(SiO4)6O2 apatite environmental barrier coating material. Journal of the European Ceramic Society, 2019, 39, 5380-5390.	5.7	27
7	Slow-crack-growth and indentation damage in calcium magnesium aluminosilicate (CMAS) glass from desert sand. Ceramics International, 2018, 44, 2676-2682.	4.8	7
8	High-temperature interactions of desert sand CMAS glass with yttrium disilicate environmental barrier coating material. Ceramics International, 2018, 44, 22738-22743.	4.8	48
9	High temperature viscosity of calcium-magnesium-aluminosilicate glass from synthetic sand. Scripta Materialia, 2016, 124, 189-192.	5.2	64
10	Mechanical and thermal properties of calciumâ€“magnesium aluminosilicate (CMAS) glass. Journal of the European Ceramic Society, 2015, 35, 2907-2914.	5.7	67
11	Properties of CMAS glass from desert sand. Ceramics International, 2015, 41, 3901-3909.	4.8	56
12	Crystallization kinetics of calciumâ€“magnesium aluminosilicate (CMAS) glass. Surface and Coatings Technology, 2014, 259, 608-615.	4.8	44
13	Solâ€“gel synthesis of La0.6Sr0.4CoO3â^'x and Sm0.5Sr0.5CoO3â^'x cathode nanopowders for solid oxide fuel cells. Ceramics International, 2012, 38, 5535-5541.	4.8	10
14	Elevated-temperature stress rupture in interlaminar shear of a Hi-Nic SiC/SiC ceramic matrix composite. Composites Science and Technology, 2009, 69, 890-897.	7.8	28
15	Mechanical properties of Hi-Nicalon fiber-reinforced celsian composites after high-temperature exposures in air. Journal of the European Ceramic Society, 2009, 29, 525-535.	5.7	7
16	Thermal properties of oxides with magnetoplumbite structure for advanced thermal barrier coatings. Surface and Coatings Technology, 2008, 202, 2698-2703.	4.8	102
17	Mechanical and microstructural characterization of boron nitride nanotubes-reinforced SOFC seal glass composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 460-461, 509-515.	5.6	51
18	Effects of doping on thermal conductivity of pyrochlore oxides for advanced thermal barrier coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 192-195.	5.6	136

#	Article	IF	Citations
19	Boron Nitride Nanotubes-Reinforced Glass Composites. Journal of the American Ceramic Society, 2006, 89, 388-390.	3.8	88
20	Combustion synthesis of Sm0.5Sr0.5CoO3â^'x and La0.6Sr0.4CoO3â^'x nanopowders for solid oxide fuel cell cathodes. Journal of Power Sources, 2006, 158, 148-153.	7.8	111
21	Crystallization kinetics of a solid oxide fuel cell seal glass by differential thermal analysis. Journal of Power Sources, 2005, 147, 107-115.	7.8	110
22	Rare earth silicate environmental barrier coatings for SiC/SiC composites and Si3N4 ceramics. Journal of the European Ceramic Society, 2005, 25, 1705-1715.	5.7	618
23	Thermal conductivity of zirconiaâ€"alumina composites. Ceramics International, 2005, 31, 911-916.	4.8	45
24	Flexure Strength, Fracture Toughness, and Slow Crack Growth of YSZ/Alumina Composites at High Temperatures. Journal of the American Ceramic Society, 2005, 88, 1474-1480.	3.8	29
25	Delayed failure of ceramic matrix composites in tension at elevated temperatures. Journal of the European Ceramic Society, 2005, 25, 1629-1636.	5.7	20
26	SiC Fiber-Reinforced Celsian Composites. , 2005, , 227-249.		5
27	Shear Strength as a Function of Test Rate for SiC_f/BSAS Ceramic Matrix Composite at Elevated Temperature. Journal of the American Ceramic Society, 2004, 87, 1912-1918.	3.8	28
28	Celsian formation in fiber-reinforced barium aluminosilicate glassâ€"ceramic matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 23-27.	5.6	40
29	Upper Temperature Limit of Environmental Barrier Coatings Based on Mullite and BSAS. Journal of the American Ceramic Society, 2003, 86, 1299-1306.	3.8	311
30	In-plane and interlaminar shear strength of a unidirectional Hi-Nicalon fiber-reinforced celsian matrix composite. Ceramics International, 2002, 28, 527-540.	4.8	44
31	Raman Study of Hiâ€Nicalonâ€Fiberâ€Reinforced Celsian Composites: I, Distribution and Nanostructure of Different Phases. Journal of the American Ceramic Society, 2001, 84, 1129-1135.	3.8	24
32	Raman Study of Hiâ€Nicalonâ€Fiberâ€Reinforced Celsian Composites: II, Residual Stress in Fibers. Journal of the American Ceramic Society, 2001, 84, 1136-1142.	3.8	45
33	Hi-Nicalon fiber-reinforced celsian matrix composites: Influence of interface modification. Journal of Materials Research, 1998, 13, 1530-1537.	2.6	23
34	Chemical vapor deposited SiC (SCS-0) fiber-reinforced strontium aluminosilicate glass-ceramic composites. Journal of Materials Research, 1997, 12, 745-753.	2.6	15
35	Mechanical behavior of silicon carbide fiber-reinforced strontium aluminosilicate glassâ€"ceramic composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 231, 117-127.	5.6	14
36	Strong and Tough Hiâ€Nicalonâ€Fiberâ€Reinforced Celsianâ€Matrix Composites. Journal of the American Ceramic Society, 1997, 80, 2407-2409.	3.8	34

#	Article	IF	Citations
37	CVD SiC fiber-reinforced barium aluminosilicate glassâ€"ceramic matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 220, 129-139.	5.6	32
38	Kinetics of Hexacelsian-to-Celsian Phase Transformation in SrAl2Si2O8. Journal of the American Ceramic Society, 1993, 76, 1321-1324.	3.8	61
39	High-Tc of undoped and fluorine-doped YBa2Cu3Oy films on ceramic substrates by screen printing. Materials Letters, 1992, 13, 7-11.	2.6	3
40	Superconducting Glass-Ceramics in the Bi-Sr-Ca-Cu-O System. Journal of the American Ceramic Society, 1990, 73, 1165-1171.	3.8	40
41	Influence of Several Metal Ions on the Gelation Activation Energy of Silicon Tetraethoxide. Journal of the American Ceramic Society, 1990, 73, 2647-2652.	3.8	49
42	Phase transformations in xerogels of mullite composition. Journal of Materials Science, 1990, 25, 2815-2821.	3.7	48
43	Superconducting Bi1.5Pb0.5Sr2Ca2Cu3Oxceramics by rapid melt quenching and glass crystallization. Journal of Applied Physics, 1990, 68, 1143-1150.	2.5	32
44	Glassâ€derived superconducting ceramics with zero resistance at 107 K in the Bi1.5Pb0.5Sr2Ca2Cu3Oxsystem. Applied Physics Letters, 1989, 55, 1572-1574.	3.3	15
45	Crystallization kinetics of BaOâ€"Al₂O₃â€"SiO₂ glasses. Journal of Materials Research, 1989, 4, 1257-1265.	2.6	90
46	Sol-Gel Synthesis of Magnesium Oxide-Silicon Dioxide Glass Compositions. Journal of the American Ceramic Society, 1988, 71, 666-672.	3.8	44
47	Chemical durability of highâ€temperature superconductor YBa2Cu3O7â^'xin aqueous environments. Applied Physics Letters, 1988, 52, 323-325.	3.3	117
48	HighTcscreenâ€printed YBa2Cu3O7â^'xfilms: Effect of the substrate material. Applied Physics Letters, 1988, 53, 603-605.	3.3	37
49	Effect of fluoride doping on the transition temperature of YBa2Cu3O6.5+Î´. Applied Physics Letters, 1988, 52, 838-840.	3.3	31
50	Effect of processing parameters on the characteristics of high-Tc superconductor YBa2Cu3Oy. Journal of Materials Research, 1988, 3, 1304-1310.	2.6	9
51	Annealing of electron damage in Mid-IR transmitting fluoride glass. Materials Research Bulletin, 1986, 21, 281-288.	5.2	4
52	X-ray diffraction studies of phase transformations in heavy-metal fluoride glasses. Journal of Materials Science, 1985, 20, 2794-2800.	3.7	7
53	Crystallization of fluorozirconate glasses. Materials Research Bulletin, 1984, 19, 577-590.	5.2	38
54	Surface Tension of ZrF4-BaF2-LaF3Glass. Journal of the American Ceramic Society, 1984, 67, C-197-C-197.	3.8	9

#	Article	IF	Citations
55	Crystallization Of Heavy Metal Fluoride Glasses. , 1984, 0484, 51.		7
56	Surface Crystallization of a Fluoride Glass. Journal of the American Ceramic Society, 1983, 66, C-132-C-133.	3.8	4
57	Kinetics of Crystallization of ZrF4-Ba2-LaF3 Glass by Differential Scanning Calorimetry. Journal of the American Ceramic Society, 1983, 66, 233-238.	3.8	174
58	Crystallization and Properties of Sr-Ba Aluminosilicate Glass-Ceramic Matrices. Ceramic Engineering and Science Proceedings, 0, , 1222-1234.	0.1	43
59	Mechanical and Thermal Properties of Advanced Oxide Materials for Higher-Temperature Coatings Applications. Ceramic Engineering and Science Proceedings, 0, , 11-19.	0.1	28
60	Strength and Fractue Toughness of Ysz/Alumina Composites for Solid Oxide Fuel Cells. Ceramic Engineering and Science Proceedings, 0, , 741-750.	0.1	8
61	Mechanical Behavior of Solid Oxide Fuel Cell (SOFC) Seal Glass-Boron Nitride Nanotubes Composite. Ceramic Engineering and Science Proceedings, 0, , 305-314.	0.1	0