

Pankaj Sarin

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,610
citations

394421

19
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1728
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron release from corroded iron pipes in drinking water distribution systems: effect of dissolved oxygen. <i>Water Research</i> , 2004, 38, 1259-1269.	11.3	282
2	Physico-chemical characteristics of corrosion scales in old iron pipes. <i>Water Research</i> , 2001, 35, 2961-2969.	11.3	214
3	The tetragonal to monoclinic, ferroelastic transformation in yttrium tantalate and effect of zirconia alloying. <i>Acta Materialia</i> , 2014, 69, 196-202.	7.9	112
4	Thermal Expansion of HfO_2 and ZrO_2 . <i>Journal of the American Ceramic Society</i> , 2014, 97, 2213-2222.	3.8	108
5	Atomic Structure of a Cesium Aluminosilicate Geopolymer: A Pair Distribution Function Study. <i>Chemistry of Materials</i> , 2008, 20, 4768-4776.	6.7	106
6	X-Ray pair distribution function analysis of a metakaolin-based, $\text{KAlSi}_2\text{O}_6 \cdot 5.5\text{H}_2\text{O}$ inorganic polymer (geopolymer). <i>Journal of Materials Chemistry</i> , 2008, 18, 5974.	6.7	99
7	High Temperature Properties and Ferroelastic Phase Transitions in Rare Earth Niobates (LnNbO_4). <i>Journal of the American Ceramic Society</i> , 2014, 97, 3307-3319.	3.8	82
8	In situ studies of oxidation of ZrB_2 and ZrB_2/SiC composites at high temperatures. <i>Journal of the European Ceramic Society</i> , 2010, 30, 2375-2386.	5.7	73
9	Iron Release from corroded, unlined cast iron pipe. <i>Journal - American Water Works Association</i> , 2003, 95, 85-96.	0.3	56
10	Electronic and optical properties of vanadium oxides from first principles. <i>Computational Materials Science</i> , 2018, 146, 310-318.	3.0	54
11	Measurement of O and Ti atom displacements in TiO_2 during flash sintering experiments. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1811-1817.	3.8	54
12	Porous Biphasic Calcium Phosphate Scaffolds from Cuttlefish Bone. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2362-2370.	3.8	50
13	First-principles study of mechanical and magnetic properties of transition metal (M) nitrides in the cubic M_4N structure. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 197-206.	4.0	41
14	Aluminium-containing scales in water distribution systems: Prevalence and composition. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2003, 52, 455-474.	1.4	39
15	Effect of transition-metal-ion doping on high temperature thermal expansion of 3:2 mullite: An in situ, high temperature, synchrotron diffraction study. <i>Journal of the European Ceramic Society</i> , 2008, 28, 353-365.	5.7	37
16	Growth of textured mullite fibers using a quadrupole lamp furnace. <i>Journal of the European Ceramic Society</i> , 2008, 28, 455-463.	5.7	31
17	<i>CTEAS</i> : a graphical-user-interface-based program to determine thermal expansion from high-temperature X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2013, 46, 550-553.	4.5	28
18	On the synchronicity of flash sintering and phase transformation. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3110-3116.	3.8	26

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19	Universal link of magnetic exchange and structural behavior under pressure in chromium spinels. Physical Review B, 2018, 97, .	3.2	24
20	Phase Transformations in the High-Temperature Form of Pure and TiO ₂ -Stabilized Ta ₂ O ₅ . Journal of the American Ceramic Society, 2007, 90, 2947-2953.	3.8	20
21	<i>In Situ</i> Synchrotron X-Ray Diffraction Study of the Cubic to Rhombohedral Phase Transformation in Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb). Journal of the American Ceramic Society, 2013, 96, 987-994.	3.8	19
22	Transparency enhancement for SrVO ₃ by SrTiO ₃ mixing: A first-principles study. Computational Materials Science, 2018, 144, 139-146.	3.0	13
23	A curved image-plate detector system for high-resolution synchrotron X-ray diffraction. Journal of Synchrotron Radiation, 2009, 16, 273-282.	2.4	11
24	First-principles phase diagram calculations for the carbonate quasibinary systems CaCO ₃ -ZnCO ₃ , CdCO ₃ -ZnCO ₃ , CaCO ₃ -CdCO ₃ and MgCO ₃ -ZnCO ₃ . Chemical Geology, 2016, 443, 137-145.	3.3	11
25	Thermal Expansion of Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb) and Ln ₂ WO ₆ (Ln = Y, Ho, Er, Yb). Journal of the American Ceramic Society, 2014, 97, 1256-1263.	3.8	6
26	Formation of Nanocrystalline Zeolites in Geopolymer Gels. Microscopy and Microanalysis, 2006, 12, 738-739.	0.4	5
27	Powder diffraction by fixed incident angle reflection using a curved position-sensitive detector. Journal of Applied Crystallography, 2010, 43, 560-569.	4.5	4
28	<i>In Situ</i> Synchrotron X-Ray Diffraction Study of the Rhombohedral to Cubic Phase Transformation in Ln ₆ WO ₁₂ (Ln = Y, Ho, Er, Yb). Journal of the American Ceramic Society, 2014, 97, 1256-1263.	3.8	3
29	Characterization of Tetragonal-Monoclinic, Ferroelastic Transformation and Domain Boundaries in Zirconia-Alloyed Yttrium Tantalate. Microscopy and Microanalysis, 2014, 20, 1930-1931.	0.4	1
30	Evaluation of in-situ carbon coated LiCoPO ₄ for Li-ion battery cathodes. Journal of Materials Research, 2022, 37, 2347-2355.	2.6	1
31	Exposure of Undergraduate Research Students to Entrepreneurial Activities to Motivate Future Research Careers. , 0, , .		0