

Top Cited Articles published 2021-2022

A critical review of bioactive glasses and glass-ceramics in cancer therapy	MALEK KHACHATOURIAN, A	https://dx.doi.org/10.1111/ijag.16601
Ag-Sr doped mesoporous bioactive glass nanoparticles loaded chitosan/gelatin coating for orthopedic implants	KIANI, S	https://dx.doi.org/10.1111/ijac.13702
Antibacterial applications and safety issues of silica-based materials: A review	TIAN, B	https://dx.doi.org/10.1111/ijac.13641
Antibacterial behavior of oxynitride glasses as a glassy grain boundary phase for silicon nitride-based ceramics	WEBSTER, T	https://dx.doi.org/10.1111/ijag.15902
Assessment of mechanical and microstructural properties of geopolymers produced from metakaolin, silica fume, and red mud	ANDRADE, I	https://dx.doi.org/10.1111/ijac.13635
Cd-S-Se quantum dot embedded glasses with dual emissions for wide color gamut white LED	IM, W	https://dx.doi.org/10.1111/ijag.15888
Characterization, in vitro bioactivity and biological studies of sol-gel-derived TiO ₂ substituted 58S bioactive glass	SAJJADNEJAD, M	https://dx.doi.org/10.1111/ijac.13782
Circular economy and durability in geopolymers ceramics pieces obtained from glass polishing waste	AZEVEDO, A	https://dx.doi.org/10.1111/ijac.13780
Circular economy in cementitious ceramics: Replacement of hydrated lime with a stoichiometric balanced combination of clay and marble waste	ALEXANDRE, J	https://dx.doi.org/10.1111/ijac.13634
Dy ₂ BaCuO ₅ /Ba ₄ DyCu ₃ O _{9.09} S-scheme heterojunction nanocomposite with enhanced photocatalytic and antibacterial activities	GHANBARI, M	https://dx.doi.org/10.1111/jace.17696
Effect of water vapor and thermal history on nuclear waste feed conversion to glass	KLOUZEK, J	https://dx.doi.org/10.1111/ijag.15803
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Effects of initial alpha-phase content on properties of pressureless solid-state sintered SiC ceramics	MALIK, R	https://dx.doi.org/10.1111/ijac.13892
Efficient near-infrared pyroxene phosphor LiInGe ₂ O ₆ :Cr ³⁺ for NIR spectroscopy application	CAI, H	https://dx.doi.org/10.1111/jace.17856
Electronic polarizability in silicate glasses by comparison of experimental and theoretical optical basicities	TASHEVA, T	https://dx.doi.org/10.1111/ijag.16009
Electrostatic self-assembly of 2D-2D CoP/ZnIn ₂ S ₄ nanosheets for efficient photocatalytic hydrogen evolution	XIANG, Z	https://dx.doi.org/10.1111/jace.17427
Emerging role of local and extended range molecular structures on functionalities of topological phases of (Na ₂ O) _x (P ₂ O ₅) _{100-x} glasses using Raman scattering and modulated DSC	BOOLCHAND, P	https://dx.doi.org/10.1111/ijag.15809
Extraction and characterization of hydroxyapatite-based materials from grey triggerfish skin and black scabbardfish bones	CASTILHO, P	https://dx.doi.org/10.1111/ijac.13625
First-principles investigation of solution mechanism of C in TM-Si-C matrix as the potential high-temperature ceramics	PAN, Y	https://dx.doi.org/10.1111/jace.18254
Geometric analysis of the calorimetric glass transition and fragility using constant cooling rate cycles	MAURO, J	https://dx.doi.org/10.1111/ijag.16073
Heat transfer from glass melt to cold cap: Computational fluid dynamics study of cavities beneath cold cap	GUILLEN, D	https://dx.doi.org/10.1111/ijag.15863
High-temperature persistent luminescence and visual dual-emitting optical temperature sensing in self-activated CaNb ₂ O ₆ : Tb ³⁺ phosphor	WANG, Z	https://dx.doi.org/10.1111/jace.17579

High-temperature strength of liquid-phase-sintered silicon carbide ceramics: A review	MAITY, T	https://dx.doi.org/10.1111/ijac.13805
Influence of the replacement of silica by boron trioxide on the properties of bioactive glass scaffolds	SCHUHLADEN, K	https://dx.doi.org/10.1111/ijag.15894
Integrated corrosion-resistant system for AZ31B Mg alloy via plasma electrolytic oxidation (PEO) and sol-gel processes	CASTRO, Y	https://dx.doi.org/10.1111/ijag.16536
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Melting rate correlation with batch properties and melter operating conditions during conversion of nuclear waste melter feeds to glasses	CUTFORTH, D	https://dx.doi.org/10.1111/ijag.15911
Micromechanics of machining and wear in hard and brittle materials	LAWN, B	https://dx.doi.org/10.1111/jace.17502
Niobate in silicate and phosphate glasses: Effect of glass basicity on crucible dissolution	MÖNCKE, D	https://dx.doi.org/10.1111/ijag.16505
Physical, structural, optical and gamma-ray shielding properties of Na ₂ O-CdO-Bi ₂ O ₃ -B ₂ O ₃ glasses	DRABOLD, D	https://dx.doi.org/10.1111/ijag.15859
Polymer (PCL) fibers with Zn-doped mesoporous bioactive glass nanoparticles for tissue regeneration	GALUSKOVA, D	https://dx.doi.org/10.1111/ijag.16292
Processing of MAX phases: From synthesis to applications	GONZALEZ-JULIAN, J	https://dx.doi.org/10.1111/jace.17544
Recent advances on akermanite calcium-silicate ceramic for biomedical applications	KARBASI, S	https://dx.doi.org/10.1111/ijac.13814
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Sintering and microstructural study of mullite prepared from kaolinite and reactive alumina: Effect of MgO and TiO ₂	BHATTACHARYYA, S	https://dx.doi.org/10.1111/ijac.13637
Smart white lighting and multi-mode optical modulations via photochromism in Dy-doped KNN-based transparent ceramics	ZHENG, X	https://dx.doi.org/10.1111/jace.17533
Strength of single-phase high-entropy carbide ceramics up to 2300°C	FAHRENHOLTZ, W	https://dx.doi.org/10.1111/jace.17443
Structural and optical properties in Tm ³⁺ /Tm ³⁺ -Yb ³⁺ doped NaLuF ₄ glass-ceramics	VELAZQUEZ, J	https://dx.doi.org/10.1111/ijag.16322
Structural modifications of soda-lime silicate glasses using femtosecond pulse-laser irradiation	CLARK, J	https://dx.doi.org/10.1111/ijag.15823
Structure of CAS glass surfaces and electrostatic contact charging behavior: A joint simulation and experimental investigation	CORMACK, A	https://dx.doi.org/10.1111/ijag.15794
Studies on processing of layered oxide-bonded porous SiC ceramic filter materials	DEY, A	https://dx.doi.org/10.1111/ijac.13717
Synthesis of Al ₂ O ₃ -SiC powder from electroceramics waste and its application in low-carbon MgO-C refractories	JIANG, Z	https://dx.doi.org/10.1111/ijac.13934
Tailored pore structures and mechanical properties of porous alumina ceramics prepared with corn cob pore-forming agent	OJO-KUPOLUYI, O	https://dx.doi.org/10.1111/ijac.13621
The effect of substitution of Al ₂ O ₃ and B ₂ O ₃ for SiO ₂ on the properties of cover glass for liquid crystal display: Structure, thermal, visco-elastic, and physical properties	CUI, J	https://dx.doi.org/10.1111/ijag.15904