

Top Cited Articles published 2021-2022

A critical review of bioactive glasses and glass-ceramics in cancer therapy	MALEK KHACHATOURIAN, A	<a href="https://dx.doi.org/10.1111/ijag.16601">https://dx.doi.org/10.1111/ijag.16601</a>
Ag-Sr doped mesoporous bioactive glass nanoparticles loaded chitosan/gelatin coating for orthopedic implants	KIANI, S	<a href="https://dx.doi.org/10.1111/ijac.13702">https://dx.doi.org/10.1111/ijac.13702</a>
Antibacterial applications and safety issues of silica-based materials: A review	TIAN, B	<a href="https://dx.doi.org/10.1111/ijac.13641">https://dx.doi.org/10.1111/ijac.13641</a>
Antibacterial behavior of oxynitride glasses as a glassy grain boundary phase for silicon nitride-based ceramics	WEBSTER, T	<a href="https://dx.doi.org/10.1111/ijag.15902">https://dx.doi.org/10.1111/ijag.15902</a>
Assessment of mechanical and microstructural properties of geopolymers produced from metakaolin, silica fume, and red mud	ANDRADE, I	<a href="https://dx.doi.org/10.1111/ijac.13635">https://dx.doi.org/10.1111/ijac.13635</a>
Cd-S-Se quantum dot embedded glasses with dual emissions for wide color gamut white LED	IM, W	<a href="https://dx.doi.org/10.1111/ijag.15888">https://dx.doi.org/10.1111/ijag.15888</a>
Characterization, in vitro bioactivity and biological studies of sol-gel-derived TiO <sub>2</sub> substituted 58S bioactive glass	SAJJADNEJAD, M	<a href="https://dx.doi.org/10.1111/ijac.13782">https://dx.doi.org/10.1111/ijac.13782</a>
Circular economy and durability in geopolymers ceramics pieces obtained from glass polishing waste	AZEVEDO, A	<a href="https://dx.doi.org/10.1111/ijac.13780">https://dx.doi.org/10.1111/ijac.13780</a>
Circular economy in cementitious ceramics: Replacement of hydrated lime with a stoichiometric balanced combination of clay and marble waste	ALEXANDRE, J	<a href="https://dx.doi.org/10.1111/ijac.13634">https://dx.doi.org/10.1111/ijac.13634</a>
Dy <sub>2</sub> BaCuO <sub>5</sub> /Ba <sub>4</sub> DyCu <sub>3</sub> O <sub>9.09</sub> S-scheme heterojunction nanocomposite with enhanced photocatalytic and antibacterial activities	GHANBARI, M	<a href="https://dx.doi.org/10.1111/jace.17696">https://dx.doi.org/10.1111/jace.17696</a>
Effect of water vapor and thermal history on nuclear waste feed conversion to glass	KLOUZEK, J	<a href="https://dx.doi.org/10.1111/ijag.15803">https://dx.doi.org/10.1111/ijag.15803</a>
Effects of Al:Si and (Al plus Na):Si ratios on the static corrosion of sodium-boroaluminosilicate glasses	BONNETT, J	<a href="https://dx.doi.org/10.1111/ijag.16109">https://dx.doi.org/10.1111/ijag.16109</a>
Effects of initial alpha-phase content on properties of pressureless solid-state sintered SiC ceramics	MALIK, R	<a href="https://dx.doi.org/10.1111/ijac.13892">https://dx.doi.org/10.1111/ijac.13892</a>
Efficient near-infrared pyroxene phosphor LiInGe <sub>2</sub> O <sub>6</sub> :Cr <sup>3+</sup> for NIR spectroscopy application	CAI, H	<a href="https://dx.doi.org/10.1111/jace.17856">https://dx.doi.org/10.1111/jace.17856</a>
Electronic polarizability in silicate glasses by comparison of experimental and theoretical optical basicities	TASHEVA, T	<a href="https://dx.doi.org/10.1111/ijag.16009">https://dx.doi.org/10.1111/ijag.16009</a>
Electrostatic self-assembly of 2D-2D CoP/ZnIn <sub>2</sub> S <sub>4</sub> nanosheets for efficient photocatalytic hydrogen evolution	XIANG, Z	<a href="https://dx.doi.org/10.1111/jace.17427">https://dx.doi.org/10.1111/jace.17427</a>
Emerging role of local and extended range molecular structures on functionalities of topological phases of (Na <sub>2</sub> O) <sub>x</sub> (P <sub>2</sub> O <sub>5</sub> ) <sub>100-x</sub> glasses using Raman scattering and modulated DSC	BOOLCHAND, P	<a href="https://dx.doi.org/10.1111/ijag.15809">https://dx.doi.org/10.1111/ijag.15809</a>
Extraction and characterization of hydroxyapatite-based materials from grey triggerfish skin and black scabbardfish bones	CASTILHO, P	<a href="https://dx.doi.org/10.1111/ijac.13625">https://dx.doi.org/10.1111/ijac.13625</a>
First-principles investigation of solution mechanism of C in TM-Si-C matrix as the potential high-temperature ceramics	PAN, Y	<a href="https://dx.doi.org/10.1111/jace.18254">https://dx.doi.org/10.1111/jace.18254</a>
Geometric analysis of the calorimetric glass transition and fragility using constant cooling rate cycles	MAURO, J	<a href="https://dx.doi.org/10.1111/ijag.16073">https://dx.doi.org/10.1111/ijag.16073</a>
Heat transfer from glass melt to cold cap: Computational fluid dynamics study of cavities beneath cold cap	GUILLEN, D	<a href="https://dx.doi.org/10.1111/ijag.15863">https://dx.doi.org/10.1111/ijag.15863</a>
High-temperature persistent luminescence and visual dual-emitting optical temperature sensing in self-activated CaNb <sub>2</sub> O <sub>6</sub> : Tb <sup>3+</sup> phosphor	WANG, Z	<a href="https://dx.doi.org/10.1111/jace.17579">https://dx.doi.org/10.1111/jace.17579</a>

High-temperature strength of liquid-phase-sintered silicon carbide ceramics: A review	MAITY, T	<a href="https://dx.doi.org/10.1111/ijac.13805">https://dx.doi.org/10.1111/ijac.13805</a>
Influence of the replacement of silica by boron trioxide on the properties of bioactive glass scaffolds	SCHUHLADEN, K	<a href="https://dx.doi.org/10.1111/ijag.15894">https://dx.doi.org/10.1111/ijag.15894</a>
Integrated corrosion-resistant system for AZ31B Mg alloy via plasma electrolytic oxidation (PEO) and sol-gel processes	CASTRO, Y	<a href="https://dx.doi.org/10.1111/ijag.16536">https://dx.doi.org/10.1111/ijag.16536</a>
Investigation of alumina doped 45S5 glass as a bioactive filler for experimental dental composites	AYDIN, I	<a href="https://dx.doi.org/10.1111/ijag.16043">https://dx.doi.org/10.1111/ijag.16043</a>
Melting rate correlation with batch properties and melter operating conditions during conversion of nuclear waste melter feeds to glasses	CUTFORTH, D	<a href="https://dx.doi.org/10.1111/ijag.15911">https://dx.doi.org/10.1111/ijag.15911</a>
Micromechanics of machining and wear in hard and brittle materials	LAWN, B	<a href="https://dx.doi.org/10.1111/jace.17502">https://dx.doi.org/10.1111/jace.17502</a>
Niobate in silicate and phosphate glasses: Effect of glass basicity on crucible dissolution	MÖNCKE, D	<a href="https://dx.doi.org/10.1111/ijag.16505">https://dx.doi.org/10.1111/ijag.16505</a>
Physical, structural, optical and gamma-ray shielding properties of Na <sub>2</sub> O-CdO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glasses	DRABOLD, D	<a href="https://dx.doi.org/10.1111/ijag.15859">https://dx.doi.org/10.1111/ijag.15859</a>
Polymer (PCL) fibers with Zn-doped mesoporous bioactive glass nanoparticles for tissue regeneration	GALUSKOVA, D	<a href="https://dx.doi.org/10.1111/ijag.16292">https://dx.doi.org/10.1111/ijag.16292</a>
Processing of MAX phases: From synthesis to applications	GONZALEZ-JULIAN, J	<a href="https://dx.doi.org/10.1111/jace.17544">https://dx.doi.org/10.1111/jace.17544</a>
Recent advances on akermanite calcium-silicate ceramic for biomedical applications	KARBASI, S	<a href="https://dx.doi.org/10.1111/ijac.13814">https://dx.doi.org/10.1111/ijac.13814</a>
Sand corrosion, thermal expansion, and ablation of medium- and high-entropy compositionally complex fluorite oxides	LUO, J	<a href="https://dx.doi.org/10.1111/jace.17448">https://dx.doi.org/10.1111/jace.17448</a>
Sintering and microstructural study of mullite prepared from kaolinite and reactive alumina: Effect of MgO and TiO <sub>2</sub>	BHATTACHARYYA, S	<a href="https://dx.doi.org/10.1111/ijac.13637">https://dx.doi.org/10.1111/ijac.13637</a>
Smart white lighting and multi-mode optical modulations via photochromism in Dy-doped KNN-based transparent ceramics	ZHENG, X	<a href="https://dx.doi.org/10.1111/jace.17533">https://dx.doi.org/10.1111/jace.17533</a>
Strength of single-phase high-entropy carbide ceramics up to 2300°C	FAHRENHOLTZ, W	<a href="https://dx.doi.org/10.1111/jace.17443">https://dx.doi.org/10.1111/jace.17443</a>
Structural and optical properties in Tm <sup>3+</sup> /Tm <sup>3+</sup> -Yb <sup>3+</sup> doped NaLuF <sub>4</sub> glass-ceramics	VELAZQUEZ, J	<a href="https://dx.doi.org/10.1111/ijag.16322">https://dx.doi.org/10.1111/ijag.16322</a>
Structural modifications of soda-lime silicate glasses using femtosecond pulse-laser irradiation	CLARK, J	<a href="https://dx.doi.org/10.1111/ijag.15823">https://dx.doi.org/10.1111/ijag.15823</a>
Structure of CAS glass surfaces and electrostatic contact charging behavior: A joint simulation and experimental investigation	CORMACK, A	<a href="https://dx.doi.org/10.1111/ijag.15794">https://dx.doi.org/10.1111/ijag.15794</a>
Studies on processing of layered oxide-bonded porous SiC ceramic filter materials	DEY, A	<a href="https://dx.doi.org/10.1111/ijac.13717">https://dx.doi.org/10.1111/ijac.13717</a>
Synthesis of Al <sub>2</sub> O <sub>3</sub> -SiC powder from electroceramics waste and its application in low-carbon MgO-C refractories	JIANG, Z	<a href="https://dx.doi.org/10.1111/ijac.13934">https://dx.doi.org/10.1111/ijac.13934</a>
Tailored pore structures and mechanical properties of porous alumina ceramics prepared with corn cob pore-forming agent	OJO-KUPOLUYI, O	<a href="https://dx.doi.org/10.1111/ijac.13621">https://dx.doi.org/10.1111/ijac.13621</a>
The effect of substitution of Al <sub>2</sub> O <sub>3</sub> and B <sub>2</sub> O <sub>3</sub> for SiO <sub>2</sub> on the properties of cover glass for liquid crystal display: Structure, thermal, visco-elastic, and physical properties	CUI, J	<a href="https://dx.doi.org/10.1111/ijag.15904">https://dx.doi.org/10.1111/ijag.15904</a>