

Anuraag Gaddam

List of Publications by Year in descending order

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papers

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136950

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Bioactive Glasses and Glass-Ceramics for Healthcare Applications in Bone Regeneration and Tissue Engineering. <i>Materials</i> , 2018, 11, 2530.	2.9	196
2	Cationic Substitutions in Hydroxyapatite: Current Status of the Derived Biofunctional Effects and Their In Vitro Interrogation Methods. <i>Materials</i> , 2018, 11, 2081.	2.9	179
3	Physicochemical Mechanism for the Continuous Reaction of γ -Al ₂ O ₃ -Modified Aluminum Powder with Water. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1521-1526.	3.8	147
4	Hydrogen-Generation Materials for Portable Applications. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3825-3834.	3.8	132
5	Composite and Nanocomposite Metal Foams. <i>Materials</i> , 2016, 9, 79.	2.9	102
6	Influence of strontium on structure, sintering and biodegradation behaviour of CaO-MgO-SrO-SiO ₂ -P ₂ O ₅ -CaF ₂ glasses. <i>Acta Biomaterialia</i> , 2011, 7, 4071-4080.	8.3	98
7	Alkali-free bioactive glasses for bone tissue engineering: A preliminary investigation. <i>Acta Biomaterialia</i> , 2012, 8, 361-372.	8.3	96
8	Hydrothermal Synthesis of Nanosized Titania Powders: Influence of Tetraalkyl Ammonium Hydroxides on Particle Characteristics. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1696-1702.	3.8	94
9	Fabrication of Highly Porous Mullite Materials. <i>Journal of the American Ceramic Society</i> , 2005, 88, 777-779.	3.8	83
10	Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5591-5602.	3.1	68
11	The role of P ₂ O ₅ , TiO ₂ and ZrO ₂ as nucleating agents on microstructure and crystallization behaviour of lithium disilicate-based glass. <i>Journal of Materials Science</i> , 2013, 48, 765-773.	3.7	65
12	Role of glass structure in defining the chemical dissolution behavior, bioactivity and antioxidant properties of zinc and strontium co-doped alkali-free phosphosilicate glasses. <i>Acta Biomaterialia</i> , 2014, 10, 3264-3278.	8.3	64
13	Multifunctional materials for bone cancer treatment. <i>International Journal of Nanomedicine</i> , 2014, 9, 2713.	6.7	64
14	Influence of the annealing temperatures on the photoluminescence of KCaBO ₃ :Eu ³⁺ phosphor. <i>RSC Advances</i> , 2012, 2, 8768.	3.6	61
15	Structural analysis and thermal behavior of diopside-fluorapatite-wollastonite-based glasses and glass-ceramics. <i>Acta Biomaterialia</i> , 2010, 6, 4380-4388.	8.3	59
16	Novel route for rapid sol-gel synthesis of hydroxyapatite, avoiding ageing and using fast drying with a 50-fold to 200-fold reduction in process time. <i>Materials Science and Engineering C</i> , 2017, 70, 796-804.	7.3	59
17	Synthetic and Marine-Derived Porous Scaffolds for Bone Tissue Engineering. <i>Materials</i> , 2018, 11, 1702.	2.9	55
18	Structural role of zinc in biodegradation of alkali-free bioactive glasses. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3073.	5.8	54

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19	KCa ₄ (BO ₃) ₃ :Ln ³⁺ (Ln = Dy, Eu, Tb) phosphors for near UV excited white light emitting diodes. AIP Advances, 2013, 3, .	1.3	53
20	Effect of Solids Loading on Slip Casting Performance of Silicon Carbide Slurries. Journal of the American Ceramic Society, 1999, 82, 1993-2000.	3.8	51
21	Single step synthesis of nanosized CeO ₂ MxOy mixed oxides (MxOy = SiO ₂ , TiO ₂ , ZrO ₂ , and Al ₂ O ₃) by microwave induced solution combustion synthesis: characterization and CO oxidation. Journal of Materials Science, 2009, 44, 2743-2751.	3.7	45
22	Structure and Crystallization of Alkaline-Earth Aluminosilicate Glasses: Prevention of the Alumina-Avoidance Principle. Journal of Physical Chemistry B, 2018, 122, 4737-4747.	2.6	42
23	Diopside (CaO·MgO·2SiO ₂) fluorapatite (9CaO·3P ₂ O ₅ ·CaF ₂) glass-ceramics: potential materials for bone tissue engineering. Journal of Materials Chemistry, 2011, 21, 16247.	6.7	41
24	Structure, surface reactivity and physico-chemical degradation of fluoride containing phospho-silicate glasses. Journal of Materials Chemistry, 2011, 21, 8074.	6.7	41
25	Sintering behavior of lanthanide-containing glass-ceramic sealants for solid oxide fuel cells. Journal of Materials Chemistry, 2012, 22, 10042.	6.7	41
26	The roles of P ₂ O ₅ and SiO ₂ /Li ₂ O ratio on the network structure and crystallization kinetics of non-stoichiometric lithium disilicate based glasses. Journal of Non-Crystalline Solids, 2018, 481, 512-521.	3.1	37
27	Thermal stability and crystallization kinetics of ternary SeTeSb semiconducting glassy alloys. Journal of Thermal Analysis and Calorimetry, 2009, 98, 347-354.	3.6	36
28	Structure, Sintering, and Crystallization Kinetics of Alkaline Earth Aluminosilicate Glass Ceramic Sealants for Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2010, 93, 830-837.	3.8	36
29	A new model formulation of the SiO ₂ Al ₂ O ₃ B ₂ O ₃ MgO CaO Na ₂ O F glass-ceramics. Biomaterials, 2005, 26, 2255-2264.	11.4	35
30	Gelcasting of Magnesium Aluminate Spinel Powder. Journal of the American Ceramic Society, 2009, 92, 350-357.	3.8	35
31	Crystallization Process and Some Properties of Li ₂ O SiO ₂ Glass Ceramic Doped with Al ₂ O ₃ and K ₂ O. Journal of the American Ceramic Society, 2008, 91, 3698-3703.	3.8	34
32	Understanding the composition structure bioactivity relationships in diopside (CaO·MgO·2SiO ₂) tricalcium phosphate (3CaO·P ₂ O ₅) glass system. Acta Biomaterialia, 2015, 15, 210-226.	8.3	34
33	Structure, biodegradation behavior and cytotoxicity of alkali-containing alkaline-earth phosphosilicate glasses. Materials Science and Engineering C, 2014, 44, 159-165.	7.3	33
34	Microwave-assisted Synthesis and Structural Characterization of Nanosized Ce _{0.5} Zr _{0.5} O ₂ for CO Oxidation. Catalysis Letters, 2009, 130, 227-234.	2.6	31
35	Thermal and mechanical stability of lanthanide-containing glass ceramic sealants for solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 1834-1846.	10.3	31
36	Characterization and photocatalytic activity of TiO ₂ M x O y (M x O y = SiO ₂ , Al ₂ O ₃ , and ZrO ₂) mixed oxides synthesized by microwave-induced solution combustion technique. Journal of Materials Science, 2009, 44, 4874-4882.	3.7	29

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37	Study of melilite based glasses and glass-ceramics nucleated by Bi ₂ O ₃ for functional applications. RSC Advances, 2012, 2, 10955.	3.6	29
38	Direct ink writing of macroporous lead-free piezoelectric Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ . Journal of the American Ceramic Society, 2019, 102, 3191-3203.	3.8	29
39	Hydrothermal synthesis of well-dispersed TiO ₂ nano-crystals. Journal of Materials Research, 2002, 17, 2197-2200.	2.6	28
40	Temperature-Induced Gelation of Concentrated Sialon Suspensions. Journal of the American Ceramic Society, 2005, 88, 593-598.	3.8	28
41	Role of manganese on the structure, crystallization and sintering of non-stoichiometric lithium disilicate glasses. RSC Advances, 2014, 4, 13581.	3.6	28
42	Cosubstitution of Zinc and Strontium in β -Tricalcium Phosphate: Synthesis and Characterization. Journal of the American Ceramic Society, 2011, 94, 230-235.	3.8	27
43	Sintering and devitrification of glass-powder compacts in the akermanite-gehlenite system. Journal of Materials Science, 2013, 48, 4128-4136.	3.7	27
44	Influence of ZnO/MgO substitution on sintering, crystallisation, and bio-activity of alkali-free glass-ceramics. Materials Science and Engineering C, 2015, 53, 252-261.	7.3	27
45	Nano-TiO ₂ -Coated Unidirectional Porous Glass Structure Prepared by Freeze Drying and Solution Infiltration. Journal of the American Ceramic Society, 2007, 90, 1265-1268.	3.8	26
46	Understanding the Formation of CaAl ₂ Si ₂ O ₈ in Melilite-Based Glass-Ceramics: Combined Diffraction and Spectroscopic Studies. ACS Omega, 2017, 2, 6233-6243.	3.5	26
47	Osteogenic capacity of alkali-free bioactive glasses. <i>In vitro</i> studies. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2360-2365.	3.4	26
48	Glass structure and crystallization of Al and B containing glasses belonging to the Li ₂ O-SiO ₂ system. RSC Advances, 2015, 5, 41066-41078.	3.6	25
49	The <i>in vivo</i> performance of an alkali-free bioactive glass for bone grafting, F_{O}^{BG} , assessed with an ovine model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 30-38.	3.4	25
50	Feedstock Formulations for Direct Consolidation of Porcelains with Polysaccharides. Journal of the American Ceramic Society, 2001, 84, 719-725.	3.8	24
51	Development of bilayer glass-ceramic SOFC sealants via optimizing the chemical composition of glasses—a review. Journal of Solid State Electrochemistry, 2015, 19, 2899-2916.	2.5	24
52	The structural role of lanthanum oxide in silicate glasses. Journal of Non-Crystalline Solids, 2019, 505, 18-27.	3.1	24
53	Tunable femtosecond nonlinear absorption and optical limiting thresholds of La ₂ O ₃ -B ₂ O ₃ glasses by controlling the borate structural units. Scripta Materialia, 2022, 211, 114530.	5.2	24
54	The Beneficial Mechanical and Biological Outcomes of Thin Copper-Gallium Doped Silica-Rich Bio-Active Glass Implant-Type Coatings. Coatings, 2020, 10, 1119.	2.6	23

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55	Effect of BaO Addition on Crystallization, Microstructure, and Properties of Diopside-Ca-Tschermak Clinopyroxene-Based Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 2236-2244.	3.8	22
56	A hundred times faster: Novel, rapid sol-gel synthesis of bio-glass nanopowders (Si-Na-Ca-P system, Ca:P = 1:2). <i>Journal of Applied Materials</i> , 2019, 10, 010001.	2.0	22
57	Surface functionalization of cuttlefish bone-derived biphasic calcium phosphate scaffolds with polymeric coatings. <i>Materials Science and Engineering C</i> , 2019, 105, 110014.	7.3	22
58	Study of Crystallization Kinetics in Glasses along the Diopside-Ca-Tschermak Join. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2690-2697.	3.8	21
59	Additive manufacturing of 3D porous alkali-free bioactive glass scaffolds for healthcare applications. <i>Journal of Materials Science</i> , 2017, 52, 12079-12088.	3.7	21
60	Hydrolysis Control of AlN Powders for the Aqueous Processing of Spherical AlN Granules. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1383-1389.	3.8	20
61	Elucidating the formation of Al-NBO bonds, Al-O-Al linkages and clusters in alkaline-earth aluminosilicate glasses based on molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23966-23977.	2.8	20
62	Ionic Conductivity of Na ₃ Al ₂ P ₃ O ₁₂ Glass Electrolytes—Role of Charge Compensators. <i>Inorganic Chemistry</i> , 2021, 60, 12893-12905.	4.0	20
63	Structural characterisation and thermo-physical properties of glasses in the Li ₂ O-SiO ₂ -Al ₂ O ₃ -K ₂ O system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 103, 827-834.	3.6	18
64	Enhanced bioactivity of a rapidly-dried sol-gel derived quaternary bioglass. <i>Materials Science and Engineering C</i> , 2018, 91, 36-43.	7.3	18
65	Robocasting of Cu ²⁺ & La ³⁺ doped sol-gel glass scaffolds with greatly enhanced mechanical properties: Compressive strength up to 14 MPa. <i>Acta Biomaterialia</i> , 2019, 87, 265-272.	8.3	18
66	Dielectric and optical properties of Ni- and Fe-doped CeO ₂ Nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	18
67	Three-dimensional printing of zirconia scaffolds for load bearing applications: Study of the optimal fabrication conditions. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4368-4380.	3.8	18
68	Influence of ZnO on the crystallization kinetics and properties of diopside-Ca-Tschermak based glasses and glass-ceramics. <i>Journal of Applied Physics</i> , 2008, 104, 043529.	2.5	17
69	Fabrication of Barium Strontium Titanate (Ba _{0.6} Sr _{0.4} TiO ₃) 3D Microcomponents from Aqueous Suspensions. <i>Journal of the American Ceramic Society</i> , 2014, 97, 725-732.	3.8	17
70	Doping β -TCP as a Strategy for Enhancing the Regenerative Potential of Composite β -TCP-Alkali-Free Bioactive Glass Bone Grafts. Experimental Study in Rats. <i>Materials</i> , 2019, 12, 4.	2.9	17
71	Nanocrystalline ZnO-SnO ₂ mixed metal oxide powder: microstructural study, optical properties, and photocatalytic activity. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 274-282.	2.4	16
72	Direct Ink Writing Glass: A Preliminary Step for Optical Application. <i>Materials</i> , 2020, 13, 1636.	2.9	16

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73	Coprecipitation and Processing of Mullite Precursor Phases. Journal of the American Ceramic Society, 1996, 79, 1756-1760.	3.8	15
74	SiALON Ceramics Obtained by Slip Casting and Pressureless Sintering. Journal of the American Ceramic Society, 2003, 86, 366-368.	3.8	15
75	Hydrothermal Synthesis of Submicrometer Alumina from Seeded Tetraethylammonium Hydroxide-Peptized Aluminum Hydroxide. Journal of the American Ceramic Society, 2003, 86, 2055-2058.	3.8	15
76	Influence of Strontium Oxide on Structural Transformations in Diopside-Based Glass-Ceramics Assessed by Diverse Structural Tools. Journal of Physical Chemistry C, 2015, 119, 11482-11492.	3.1	15
77	Structure and Stability of High CaO- and P ₂ O ₅ -Containing Silicate and Borosilicate Bioactive Glasses. Journal of Physical Chemistry B, 2019, 123, 7558-7569.	2.6	14
78	Melilite glass-ceramic sealants for solid oxide fuel cells: effects of ZrO ₂ additions assessed by microscopy, diffraction and solid-state NMR. Journal of Materials Chemistry A, 2013, 1, 6471.	10.3	13
79	Synthesis and bioactivity assessment of high silica content quaternary glasses with C/P ratios of 1.5 and 1.67, made by a rapid sol-gel process. Journal of Biomedical Materials Research - Part A, 2018, 106, 510-520.	4.0	13
80	Robocasting: Prediction of ink printability in solgel bioactive glass. Journal of the American Ceramic Society, 2019, 102, 1608-1618.	3.8	13
81	Characterization and Mechanical Performance of the Mg-Stabilized beta-Ca ₃ (PO ₄) ₂ Prepared from Mg-Substituted Ca-Deficient Apatite. Journal of the American Ceramic Society, 2006, 89, 060623005134017-???	3.8	12
82	Influence of Al ₂ O ₃ and B ₂ O ₃ on Sintering and Crystallization of Lithium Silicate Glass System. Journal of the American Ceramic Society, 2016, 99, 833-840.	3.8	12
83	The effect of TiO ₂ and P ₂ O ₅ on densification behavior and properties of Anortite-Diopside glass-ceramic substrates. Journal of Electroceramics, 2010, 25, 38-44.	2.0	10
84	Effects of catalysts on polymerization and microstructure of sol-gel derived bioglasses. Journal of the American Ceramic Society, 2018, 101, 2831-2839.	3.8	10
85	Role of vanadium oxide on the lithium silicate glass structure and properties. Journal of the American Ceramic Society, 2021, 104, 2495-2505.	3.8	10
86	Sol-Gel Synthesis and Characterization of a Quaternary Bioglass for Bone Regeneration and Tissue Engineering. Materials, 2021, 14, 4515.	2.9	10
87	Robocasting of 3D printed and sintered ceria scaffold structures with hierarchical porosity for solar thermochemical fuel production from the splitting of CO ₂ . Nanoscale, 2022, 14, 4994-5001.	5.6	10
88	Lithium Disilicate based Glass-Ceramics for Dental Applications. Transactions of the Indian Ceramic Society, 2013, 72, 56-60.	1.0	9
89	Insights on the properties of levofloxacin-adsorbed Sr- and Mg-doped calcium phosphate powders. Journal of Materials Science: Materials in Medicine, 2016, 27, 123.	3.6	9
90	Structure and thermal relaxation of network units and crystallization of lithium silicate based glasses doped with oxides of Al and B. Physical Chemistry Chemical Physics, 2017, 19, 26034-26046.	2.8	9

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91	Highly Porous Composite Scaffolds Endowed with Antibacterial Activity for Multifunctional Grafts in Bone Repair. <i>Polymers</i> , 2021, 13, 4378.	4.5	9
92	Hydrolysis-Induced Aqueous Gelcasting of Magnesium Aluminate Spinel. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 873-884.	2.1	8
93	Al ₂ O ₃ /K ₂ O-containing non-stoichiometric lithium disilicate-based glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 112, 1359-1368.	3.6	8
94	Design and synthesis of foam glasses from recycled materials. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 64-74.	2.1	8
95	Robocasting and surface functionalization with highly bioactive glass of ZrO ₂ scaffolds for load bearing applications. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1753-1764.	3.8	8
96	3D Printing of Macro Porous Sol-Gel Derived Bioactive Glass Scaffolds and Assessment of Biological Response. <i>Materials</i> , 2021, 14, 5946.	2.9	8
97	Sintering and crystallization behavior of CaMgSi ₂ O ₆ –NaFeSi ₂ O ₆ based glass-ceramics. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	7
98	Melt-Derived Condensed Polymorphic Calcium Phosphate as Bone Substitute Material: An <i>In Vitro</i> Study. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3023-3029.	3.8	7
99	Characterization of cement-bonded particleboards manufactured with maritime pine, blue gum and cork grown in Portugal. <i>European Journal of Wood and Wood Products</i> , 2012, 70, 107-111.	2.9	7
100	Statistics of silicate units in binary glasses. <i>Journal of Chemical Physics</i> , 2016, 145, 124505.	3.0	7
101	Cytotoxicity and bioactivity assessments for Cu ²⁺ and La ³⁺ doped high-silica sol-gel derived bioglasses: The complex interplay between additive ions revealed. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2680-2693.	4.0	7
102	Structural and Optical Investigation of Rare Earth Doped Oxyfluoride Glasses. <i>Transactions of the Indian Ceramic Society</i> , 2013, 72, 18-20.	1.0	6
103	Elucidating the influence of structure and Ag ⁺ -Na ⁺ ion-exchange on crack-resistance and ionic conductivity of Na ₃ Al _{1.8} Si _{1.65} P _{1.8} O ₁₂ glass electrolyte. <i>Acta Materialia</i> , 2022, 227, 117745.	7.9	6
104	Fabrication of β -sialon sheets by tape casting and pressureless sintering. <i>Journal of Materials Research</i> , 2003, 18, 1363-1367.	2.6	5
105	Structure, properties and crystallization of non-stoichiometric lithium disilicate glasses containing CaF ₂ . <i>Journal of Non-Crystalline Solids</i> , 2014, 406, 54-61.	3.1	5
106	The Influence of Cu ²⁺ and Mn ²⁺ Ions on the Structure and Crystallization of Diopside–Calcium Pyrophosphate Bioglasses. <i>International Journal of Applied Glass Science</i> , 2016, 7, 345-354.	2.0	5
107	Cuttlefish Bone-Derived Biphasic Calcium Phosphate Scaffolds Coated with Sol-Gel Derived Bioactive Glass. <i>Materials</i> , 2019, 12, 2711.	2.9	5
108	Fabrication of three dimensional bioactive Sr ²⁺ substituted apatite scaffolds by gel-casting technique for hard tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 577-585.	2.7	5

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109	Effect of Vanadium Oxide on the Structure and Li-Ion Conductivity of Lithium Silicate Glasses. Journal of Physical Chemistry C, 2021, 125, 16843-16857.	3.1	5
110	The key Features expected from a Perfect Bioactive Glass â€‘How Far we still are from an Ideal Composition?. Biomedical Journal of Scientific & Technical Research, 2017, 1, .	0.1	5
111	Synthesis, Characterization, and Processing of Cordieriteâ€‘Glass Particles Modified by Coating with an Alumina Precursor. Journal of the American Ceramic Society, 2002, 85, 155-160.	3.8	4
112	Formation and Densification Behavior of Mullite Aggregates from Beach Sand Sillimanite. Journal of the American Ceramic Society, 2008, 91, 2464-2468.	3.8	4
113	Effects of M -Doping and of Reinforcing M -Multiwalled Carbon Nanotubes Content on the Structure and Properties of Hydroxyapatite Nanocomposite Ceramics. International Journal of Applied Ceramic Technology, 2015, 12, 264-272.	2.1	4
114	Combined Occupancy of Gadolinium at the Lattice Sites of $Ca_3(PO_4)_2$ and ZrO_2 Crystal Structures. European Journal of Inorganic Chemistry, 2020, 2020, 1163-1171.	2.0	4
115	Development of microfibers for bone regeneration based on alkali-free bioactive glasses doped with boron oxide. Journal of the American Ceramic Society, 2021, 104, 4492-4504.	3.8	4
116	New and Efficient Bioactive Glass Compositions for Controlling Endodontic Pathogens. Nanomaterials, 2022, 12, 1577.	4.1	4
117	Influence of Li_2O Doping on Non-Isothermal Evolution of Phases in K-Na-Containing Aluminosilicate Matrix. Journal of the American Ceramic Society, 2006, 89, 292-297.	3.8	3
118	Dynamic Stability of Organic Conducting Polymers and Its Replication in Electrical Conduction and Degradation Mechanisms. Advanced Functional Materials, 2011, 21, 2240-2250.	14.9	2
119	Use of colemanite and borax penta-hydrate in soda lime silicate glass melting - A strategy to reduce energy consumption and improve glass properties. Ceramics International, 2022, 48, 1181-1190.	4.8	2