Mengguo Ren

List of Publications by Year
in descending order

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21	953	394421 19	713466 21
papers	citations	h-index	g-index

22	22	22	799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Searching for correlations between vibrational spectral features and structural parameters of silicate glass network. Journal of the American Ceramic Society, 2020, 103, 3575-3589.	3.8	43
2	Effects of surface initial condition on aqueous corrosion of glassâ€"A study with a model nuclear waste glass. Journal of the American Ceramic Society, 2019, 102, 1652-1664.	3.8	26
3	Structural features of ISG borosilicate nuclear waste glasses revealed from high-energy X-ray diffraction and molecular dynamics simulations. Journal of Nuclear Materials, 2019, 515, 284-293.	2.7	33
4	Composition â€“ structure â€“ property relationships in alkali aluminosilicate glasses: A combined experimental â€“ computational approach towards designing functional glasses. Journal of Non-Crystalline Solids, 2019, 505, 144-153.	3.1	48
5	Mixed Network Former Effect on Structure, Physical Properties, and Bioactivity of 45S5 Bioactive Glasses: An Integrated Experimental and Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2018, 122, 2564-2577.	2.6	34
6	Structure of International Simple Glass and properties of passivating layer formed in circumneutral pH conditions. Npj Materials Degradation, 2018, 2, .	5.8	91
7	B₂O₃/SiO₂ substitution effect on structure and properties of Na₂Oâ€“CaOâ€“SrOâ€“P₂O₅â€“SiO₂ bioactive glasses from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2018, 20, 14090-14104.	2.8	47
8	Effects of boron oxide substitution on the structure and bioactivity of SrO-containing bioactive glasses. Journal of Materials Science, 2017, 52, 8793-8811.	3.7	40
9	Surface structures of sodium borosilicate glasses from molecular dynamics simulations. Journal of the American Ceramic Society, 2017, 100, 2516-2524.	3.8	27
10	Bulk, surface structures and properties of sodium borosilicate and boroaluminosilicate nuclear waste glasses from molecular dynamics simulations. Journal of Non-Crystalline Solids, 2017, 476, 87-94.	3.1	44
11	Structural Origin of the Thermal and Diffusion Behaviors of Lithium Aluminosilicate Crystal Polymorphs and Glasses. Journal of the American Ceramic Society, 2016, 99, 2823-2833.	3.8	33
12	45S5 bioactive glass-ceramic coated magnesium alloy with strong interfacial bonding strength by â€œsuperplasticity diffusion bondingâ€. Materials Letters, 2015, 141, 96-99.	2.6	8
13	Calcium phosphate glass/MgF2 double layered composite coating for improving the corrosion resistance of magnesium alloy. Journal of Alloys and Compounds, 2014, 591, 34-40.	5.5	80
14	Fabrication and corrosion resistance of calcium phosphate glass-ceramic coated Mg alloy via a PEG assisted solâ€“gel method. Ceramics International, 2014, 40, 3389-3398.	4.8	33
15	Solâ€“gel derived mesoporous 58S bioactive glass coatings on AZ31 magnesium alloy and in vitro degradation behavior. Surface and Coatings Technology, 2014, 240, 137-144.	4.8	64
16	Crack self-healing of phytic acid conversion coating on AZ31 magnesium alloy by heat treatment and the corrosion resistance. Applied Surface Science, 2014, 313, 896-904.	6.1	118
17	Surface characteristics and corrosion resistance of solâ€“gel derived CaOâ€“P2O5â€“SrOâ€“Na2O bioglassâ€“ceramic coated Mg alloy by different heat-treatment temperatures. Journal of Sol-Gel Science and Technology, 2013, 67, 629-638.	2.4	9
18	Preparation and characterization of mesoporous 45S5 bioactive glassâ€“ceramic coatings on magnesium alloy for corrosion protection. Journal of Alloys and Compounds, 2013, 580, 290-297.	5.5	50

#	Article	IF	Citations
19	Influence of heat treatment on crystallization and corrosion behavior of calcium phosphate glass coated AZ31 magnesium alloy by solâ€“gel method. Journal of Non-Crystalline Solids, 2013, 369, 69-75.	3.1	36
20	45S5 bioactive glassâ€“ceramic coated AZ31 magnesium alloy with improved corrosion resistance. Surface and Coatings Technology, 2013, 228, 154-161.	4.8	34
21	Bioactive glassâ€“ceramic coating for enhancing the in vitro corrosion resistance of biodegradable Mg alloy. Applied Surface Science, 2012, 259, 799-805.	6.1	55