Jamieson Christie

List of Publications by Year
in descending order

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27	652	567281 15	552781 26
papers	citations	h-index	g-index

29	29	29	649
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorine Environment in Bioactive Glasses: ab Initio Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2011, 115, 2038-2045.	2.6	79
2	Bioactive glasses as potential radioisotope vectors for in situ cancer therapy: investigating the structural effects of yttrium. Physical Chemistry Chemical Physics, 2011, 13, 17749.	2.8	65
3	Aluminosilicate Glasses As Yttrium Vectors for in situ Radiotherapy: Understanding Composition-Durability Effects through Molecular Dynamics Simulations. Chemistry of Materials, 2010, 22, 3725-3734.	6.7	52
4	Investigating structural features which control the dissolution of bioactive phosphate glasses: Beyond the network connectivity. Journal of Non-Crystalline Solids, 2016, 432, 31-34.	3.1	46
5	Ab initio molecular dynamics simulations of structural changes associated with the incorporation of fluorine in bioactive phosphate glasses. Biomaterials, 2014, 35, 6164-6171.	11.4	42
6	Integrating biological activity into radioisotope vectors: molecular dynamics models of yttrium-doped bioactive glasses. Journal of Materials Chemistry, 2012, 22, 12023.	6.7	37
7	Polarizable force field development and molecular dynamics study of phosphate-based glasses. Journal of Chemical Physics, 2012, 137, 234502.	3.0	33
8	Nanoscale Chains Control the Solubility of Phosphate Glasses for Biomedical Applications. Journal of Physical Chemistry B, 2013, 117, 10652-10657.	2.6	33
9	Molecular Dynamics Simulations and Structural Descriptors of Radioisotope Glass Vectors for In Situ Radiotherapy. Journal of Physical Chemistry B, 2012, 116, 12614-12620.	2.6	28
10	Polarizable interatomic force field for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> using density functional theory. Physical Review B, 2010, 81, .	3.2	27
11	Shortâ€Range Structure of Yttrium Aluminoâ€Silicate Glass for Cancer Radiotherapy: Carâ€“Parrinello Molecular Dynamics Simulations. Advanced Engineering Materials, 2010, 12, B326.	3.5	26
12	Properties of water confined in hydroxyapatite nanopores as derived from molecular dynamics simulations. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	22
13	Atomic structure of Mg-based metallic glasses from molecular dynamics and neutron diffraction. Physical Chemistry Chemical Physics, 2017, 19, 8504-8515.	2.8	21
14	Effect of strontium inclusion on the bioactivity of phosphate-based glasses. Journal of Materials Science, 2017, 52, 9014-9022.	3.7	21
15	Structures and properties of phosphate-based bioactive glasses from computer simulation: a review. Journal of Materials Chemistry B, 2017, 5, 5297-5306.	5.8	19
16	Structural characteristics of positionally disordered lattices: Relation to the first sharp diffraction peak in glasses. Physical Review B, 2004, 70, .	3.2	13
17	Modeling the atomic structure of very high-density amorphous ice. Physical Review B, 2005, 72, .	3.2	13
18	On the structure of biomedical silver-doped phosphate-based glasses from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2014, 16, 21135-21143.	2.8	12

#	Article	IF	Citations
19	Atomic structure of biodegradable Mg-based bulk metallic glass. Physical Chemistry Chemical Physics, 2015, 17, 12894-12898.	2.8	12
20	Vibrational behavior of a realistic amorphous-silicon model. Journal of Non-Crystalline Solids, 2007, 353, 2272-2279.	3.1	10
21	Atomic structure and dissolution properties of yttriumâ€containing phosphate glasses. International Journal of Applied Glass Science, 2017, 8, 412-417.	2.0	10
22	Bioactive Solâ€“Gel Glasses at the Atomic Scale: The Complementary Use of Advanced Probe and Computer Modeling Methods. International Journal of Applied Glass Science, 2016, 7, 147-153.	2.0	9
23	Positional disorder in lattices: a model for the structural order responsible for the first sharp diffraction peak in glasses. Journal of Physics Condensed Matter, 2004, 16, S5109-S5120.	1.8	5
24	Structural properties and phase transitions in a silica clathrate. Journal of Chemical Physics, 2011, 134, 074506.	3.0	5
25	Atomic-scale clustering inhibits the bioactivity of fluoridated phosphate glasses. Biomedical Glasses, 2019, 5, 76-84.	2.4	5
26	Carbon dioxide and water incorporation mechanisms in SrFeO_{3â^'Î´} phases: a computational study. Physical Chemistry Chemical Physics, 2020, 22, 25146-25155.	2.8	4
27	Atomic vibrations in disordered systems: Comparison of disordered diamond lattices and a realistic amorphous silicon model. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2904-2907.	0.8	2