

Ulrich Buchenau

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

1,306
citations

13
h-index

33
g-index

33
ext. papers

1,373
ext. citations

3.2
avg. IF

4.35
L-index

#	Paper	IF	Citations
33	Interaction of soft modes and sound waves in glasses. <i>Physical Review B</i> , 1992 , 46, 2798-2808	3.3	363
32	Anharmonic potentials and vibrational localization in glasses. <i>Physical Review B</i> , 1991 , 43, 5039-5045	3.3	299
31	Dynamics of glassy and liquid selenium. <i>Physical Review Letters</i> , 1989 , 63, 2381-2384	7.4	122
30	Low-temperature thermal conductivity of glasses within the soft-potential model. <i>Physical Review B</i> , 1997 , 55, 5749-5754	3.3	80
29	Fragility and compressibility at the glass transition. <i>Physical Review B</i> , 2004 , 70,	3.3	68
28	Sound-wave scattering in silica. <i>Physical Review B</i> , 1998 , 57, 2663-2666	3.3	65
27	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , 1999 , 59, 4470-4475	2.4	45
26	Neutron scattering study of the vibrations in vitreous silica and germania. <i>Journal of Chemical Physics</i> , 2008 , 128, 244507	3.9	40
25	Mechanical relaxation in glasses and at the glass transition. <i>Physical Review B</i> , 2001 , 63,	3.3	36
24	Probing cooperative liquid dynamics with the mean square displacement. <i>Physical Review E</i> , 2014 , 90, 042312	2.4	35
23	A new interpretation of dielectric data in molecular glass formers. <i>Journal of Chemical Physics</i> , 2006 , 124, 94505	3.9	16
22	Energy landscape - a key concept in the dynamics of liquids and glasses. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S955-S966	1.8	15
21	An asymmetry model for the highly viscous flow. <i>Journal of Chemical Physics</i> , 2009 , 131, 074501	3.9	14
20	Thermodynamics and dynamics of the inherent states at the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 179-183	3.9	13
19	Fragility and elasticity: Description of flow in highly viscous liquids. <i>Physical Review B</i> , 2009 , 80,	3.3	12
18	Retardation and flow at the glass transition. <i>Physical Review E</i> , 2016 , 93, 032608	2.4	9
17	Modeling the nonlinear dielectric response of glass formers. <i>Journal of Chemical Physics</i> , 2017 , 146, 214503	3.3	8

16	Mechanical and dielectric relaxation spectra in seven highly viscous glass formers. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3812-3819	3.9	8
15	Pragmatical access to the viscous flow of undercooled liquids. <i>Physical Review E</i> , 2017 , 95, 062603	2.4	7
14	Evaluation of x-ray Brillouin scattering data. <i>Physical Review E</i> , 2014 , 90, 062319	2.4	7
13	An atomic mechanism for the boson peak in metallic glasses. <i>Philosophical Magazine</i> , 2008 , 88, 3885-3900	0.6	7
12	Inelastic Neutron Scattering from Glass Formers. <i>Progress of Theoretical Physics Supplement</i> , 1997 , 126, 151-157		6
11	Structural interpretation of the Prigogine-Defay ratio at the glass transition. <i>Physical Review B</i> , 2012 , 86,	3.3	5
10	On the mechanism of the highly viscous flow. <i>Journal of Chemical Physics</i> , 2011 , 134, 224501	3.9	5
9	Eshelby description of highly viscous flow-Half model, half theory. <i>Journal of Chemical Physics</i> , 2018 , 149, 044508	3.9	5
8	Bulk and shear relaxation in glasses and highly viscous liquids. <i>Journal of Chemical Physics</i> , 2012 , 136, 224512	3.9	4
7	The breakdown of the shear modulus at the glass transition. <i>Philosophical Magazine</i> , 2004 , 84, 1333-1340	0.6	4
6	Key experiments in highly viscous liquids. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 274-278	3.9	3
5	Structural relaxation and highly viscous flow. <i>Journal of Chemical Physics</i> , 2018 , 148, 064502	3.9	2
4	Shear and dielectric spectra in highly viscous liquids. <i>Physical Review B</i> , 2011 , 83,	3.3	1
3	An Eshelby model for highly viscous flow. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 244108	1.8	1
2	Relaxations in the glass phase of silica and of poly(methyl methacrylate)		1
1	Dielectric and thermal relaxation in the energy landscape. <i>Philosophical Magazine</i> , 2007 , 87, 389-400	1.6	