

# Ulrich Buchenau

## List of Publications by Year in Descending Order

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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	Structural relaxation and highly viscous flow. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 064502	3.9	2
32	Eshelby description of highly viscous flow-Half model, half theory. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 044508	3.9	5
31	Pragmatical access to the viscous flow of undercooled liquids. <i>Physical Review E</i> , <b>2017</b> , 95, 062603	2.4	7
30	Modeling the nonlinear dielectric response of glass formers. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 214503	3.9	8
29	Retardation and flow at the glass transition. <i>Physical Review E</i> , <b>2016</b> , 93, 032608	2.4	9
28	Thermodynamics and dynamics of the inherent states at the glass transition. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 407, 179-183	3.9	13
27	Evaluation of x-ray Brillouin scattering data. <i>Physical Review E</i> , <b>2014</b> , 90, 062319	2.4	7
26	Probing cooperative liquid dynamics with the mean square displacement. <i>Physical Review E</i> , <b>2014</b> , 90, 042312	2.4	35
25	Structural interpretation of the Prigogine-Defay ratio at the glass transition. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	5
24	Bulk and shear relaxation in glasses and highly viscous liquids. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 224512	3.9	4
23	Key experiments in highly viscous liquids. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 274-278	3.9	3
22	On the mechanism of the highly viscous flow. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 224501	3.9	5
21	Shear and dielectric spectra in highly viscous liquids. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	1
20	Fragility and elasticity: Description of flow in highly viscous liquids. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	12
19	An asymmetry model for the highly viscous flow. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 074501	3.9	14
18	An atomic mechanism for the boson peak in metallic glasses. <i>Philosophical Magazine</i> , <b>2008</b> , 88, 3885-3900	1.6	7
17	Neutron scattering study of the vibrations in vitreous silica and germania. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 244507	3.9	40

16	An Eshelby model for highly viscous flow. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 244108	1.8	1
15	Dielectric and thermal relaxation in the energy landscape. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 389-400	1.6	
14	Mechanical and dielectric relaxation spectra in seven highly viscous glass formers. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 3812-3819	3.9	8
13	A new interpretation of dielectric data in molecular glass formers. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 94505	3.9	16
12	Fragility and compressibility at the glass transition. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	68
11	The breakdown of the shear modulus at the glass transition. <i>Philosophical Magazine</i> , <b>2004</b> , 84, 1333-1340.	1.6	4
10	Energy landscape - a key concept in the dynamics of liquids and glasses. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, S955-S966	1.8	15
9	Mechanical relaxation in glasses and at the glass transition. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	36
8	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , <b>1999</b> , 59, 4470-4475	2.4	45
7	Sound-wave scattering in silica. <i>Physical Review B</i> , <b>1998</b> , 57, 2663-2666	3.3	65
6	Low-temperature thermal conductivity of glasses within the soft-potential model. <i>Physical Review B</i> , <b>1997</b> , 55, 5749-5754	3.3	80
5	Inelastic Neutron Scattering from Glass Formers. <i>Progress of Theoretical Physics Supplement</i> , <b>1997</b> , 126, 151-157		6
4	Interaction of soft modes and sound waves in glasses. <i>Physical Review B</i> , <b>1992</b> , 46, 2798-2808	3.3	363
3	Anharmonic potentials and vibrational localization in glasses. <i>Physical Review B</i> , <b>1991</b> , 43, 5039-5045	3.3	299
2	Dynamics of glassy and liquid selenium. <i>Physical Review Letters</i> , <b>1989</b> , 63, 2381-2384	7.4	122
1	Relaxations in the glass phase of silica and of poly(methyl methacrylate)		1