Suresh Mavila Chathoth

List of Publications by Year
in descending order

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38	807	516710 16	501196 28
papers	citations	h-index	g-index

39	39	39	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly collective atomic transport mechanism in high-entropy glass-forming metallic liquids. Journal of Materials Science and Technology, 2019, 35, 44-47.	10.7	14
2	A slow atomic diffusion process in high-entropy glass-forming metallic melts. Journal Physics D: Applied Physics, 2018, 51, 145301.	2.8	7
3	The role of local-geometrical-orders on the growth of dynamic-length-scales in glass-forming liquids. Scientific Reports, 2018, 8, 2025.	3.3	5
4	Microscopic origin of the logarithmic relaxation in molecular glass-forming liquids. Physical Review B, 2018, 98, .	3.2	2
5	The influence of short-range structures on atomic caging in glass-forming Cu-Zr-Al melts. Intermetallics, 2018, 102, 114-119.	3.9	7
6	Universal aging characteristics of macroscopically and microscopically dissimilar metallic glasses. Acta Materialia, 2018, 155, 35-42.	7.9	5
7	Higher-order glass-transition singularities in nano-confined states. RSC Advances, 2017, 7, 47801-47805.	3.6	0
8	Unusual concentration-dependent microscopic dynamics of dendrimers in aqueous solution. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	0
9	Quasielastic Neutron Scattering: An Advanced Technique for Studying the Relaxation Processes in Condensed Matter. , 2016, , 761-813.		2
10	The logarithmic relaxation process and the critical temperature of liquids in nano-confined states. Scientific Reports, 2016, 6, 33374.	3.3	4
11	Influence of packing density and viscosity on the growth of dynamic heterogeneity while cooling metallic melts. Applied Physics Letters, 2016, 109, 051903.	3.3	3
12	Observation of distinct atomic caging in Ce80Ni20 metallic melts. Journal of Alloys and Compounds, 2015, 650, 724-727.	5.5	4
13	Atomic caging in multicomponent glass-forming metallic liquids. Europhysics Letters, 2015, 110, 46001.	2.0	4
14	Diffusion of gold nanoparticles in toluene and water as seen by dynamic light scattering. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	20
15	Observation of distinct atomic relaxation process in a phase-separated metallic glass-forming melt. Europhysics Letters, 2014, 108, 46001.	2.0	3
16	Effect of cation on diffusion coefficient of ionic liquids at onion-like carbon electrodes. Journal of Physics Condensed Matter, 2014, 26, 284104.	1.8	40
17	Temperature dependence of the internal dynamics of a protein in an aqueous solvent: Decoupling from the solvent viscosity. Chemical Physics, 2013, 424, 12-19.	1.9	7
18	An unusual slowdown of fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2013, 102, 16004.	2.0	40

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19	Dynamics of Phenanthrenequinone on Carbon Nano-Onion Surfaces Probed by Quasielastic Neutron Scattering. Journal of Physical Chemistry B, 2012, 116, 7291-7295.	2.6	11
20	Complex atomic dynamics in a deep-eutectic binary metallic melt. Materials Chemistry and Physics, 2012, 136, 296-299.	4.0	8
21	Fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2012, 97, 66004.	2.0	75
22	Characterization of Morphology and Active Agent Mobility within Hybrid Silica Solâ€“Gel Composites. Journal of Physical Chemistry C, 2012, 116, 13972-13979.	3.1	4
23	Effect of carbon dioxide and nitrogen on the diffusivity of methane confined in nano-porous carbon aerogel. Microporous and Mesoporous Materials, 2012, 148, 101-106.	4.4	24
24	Small-angle neutron scattering characterization of the structure of nanoporous carbons for energy-related applications. Microporous and Mesoporous Materials, 2012, 149, 46-54.	4.4	37
25	Quasielastic neutron scattering study of water confined in carbon nanopores. Europhysics Letters, 2011, 95, 56001.	2.0	24
26	Microscopic glass-transition in Ni-based metallic glass-forming melts. Europhysics Letters, 2011, 95, 26001.	2.0	5
27	Diffusion and adsorption of methane confined in nano-porous carbon aerogel: A combined quasi-elastic and small-angle neutron scattering study. Microporous and Mesoporous Materials, 2010, 132, 148-153.	4.4	39
28	Stokesâ€“Einstein relation in dense metallic glass-forming melts. Applied Physics Letters, 2010, 97, 221910.	3.3	23
29	Dynamics in Cu46Zr42Al7Y5 melts: Interplay between packing density and viscosity. Applied Physics Letters, 2009, 94, 201906.	3.3	7
30	Giant changes in atomic dynamics on microalloying metallic melt. Applied Physics Letters, 2009, 95, .	3.3	28
31	Thermophysical properties of highly doped Si and Ge melts under microgravity. Journal of Applied Physics, 2009, 106, .	2.5	7
32	Influence of structural changes on diffusion in liquid germanium. Applied Physics Letters, 2009, 94, 221906.	3.3	16
33	Liquid Al80Cu20: Atomic diffusion and viscosity. Applied Physics Letters, 2008, 93, .	3.3	42
34	Fast and slow dynamics in Pr60Ni10Cu20Al10 melts as seen by neutron scattering. Journal of Applied Physics, 2008, 103, 013509.	2.5	19
35	Thermophysical properties of Si, Ge, and Siâ€“Ge alloy melts measured under microgravity. Applied Physics Letters, 2008, 93, 071902.	3.3	36
36	Dynamic Singularity in Multicomponent Glass-Forming Metallic Liquids. Physical Review Letters, 2008, 101, 037801.	7.8	45

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37	Influence of chemical short-range order on atomic diffusion in Alâ€“Ni melts. Applied Physics Letters, 2005, 86, 011918.	3.3	108
38	Atomic diffusion in liquid Ni, NiP, PdNiP, and PdNiCuP alloys. Applied Physics Letters, 2004, 85, 4881-4883.	3.3	82