

Suresh Mavila Chathoth

List of Publications by Year in descending order

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38
papers

807
citations

516710

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501196

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39
all docs

39
docs citations

39
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of chemical short-range order on atomic diffusion in Al–Ni melts. Applied Physics Letters, 2005, 86, 011918.	3.3	108
2	Atomic diffusion in liquid Ni, NiP, PdNiP, and PdNiCuP alloys. Applied Physics Letters, 2004, 85, 4881-4883.	3.3	82
3	Fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2012, 97, 66004.	2.0	75
4	Dynamic Singularity in Multicomponent Glass-Forming Metallic Liquids. Physical Review Letters, 2008, 101, 037801.	7.8	45
5	Liquid Al ₈₀ Cu ₂₀ : Atomic diffusion and viscosity. Applied Physics Letters, 2008, 93, .	3.3	42
6	An unusual slowdown of fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2013, 102, 16004.	2.0	40
7	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
8	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
9	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
10	Thermophysical properties of Si, Ge, and Si–Ge alloy melts measured under microgravity. Applied Physics Letters, 2008, 93, 071902.	3.3	36
11	Giant changes in atomic dynamics on microalloying metallic melt. Applied Physics Letters, 2009, 95, .	3.3	28
12	Quasielastic neutron scattering study of water confined in carbon nanopores. Europhysics Letters, 2011, 95, 56001.	2.0	24
13	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
14	Stokes–Einstein relation in dense metallic glass-forming melts. Applied Physics Letters, 2010, 97, 221910.	3.3	23
15	Diffusion of gold nanoparticles in toluene and water as seen by dynamic light scattering. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	20
16	Fast and slow dynamics in Pr ₆₀ Ni ₁₀ Cu ₂₀ Al ₁₀ melts as seen by neutron scattering. Journal of Applied Physics, 2008, 103, 013509.	2.5	19
17	Influence of structural changes on diffusion in liquid germanium. Applied Physics Letters, 2009, 94, 221906.	3.3	16
18	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

#	ARTICLE	IF	CITATIONS
19	Dynamics of Phenanthrenequinone on Carbon Nano-Onion Surfaces Probed by Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7291-7295.	2.6	11
20	Complex atomic dynamics in a deep-eutectic binary metallic melt. <i>Materials Chemistry and Physics</i> , 2012, 136, 296-299.	4.0	8
21	Dynamics in Cu ₄₆ Zr ₄₂ Al ₇ Y ₅ melts: Interplay between packing density and viscosity. <i>Applied Physics Letters</i> , 2009, 94, 201906.	3.3	7
22	Thermophysical properties of highly doped Si and Ge melts under microgravity. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	7
23	Temperature dependence of the internal dynamics of a protein in an aqueous solvent: Decoupling from the solvent viscosity. <i>Chemical Physics</i> , 2013, 424, 12-19.	1.9	7
24	A slow atomic diffusion process in high-entropy glass-forming metallic melts. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 145301.	2.8	7
25	The influence of short-range structures on atomic caging in glass-forming Cu-Zr-Al melts. <i>Intermetallics</i> , 2018, 102, 114-119.	3.9	7
26	Microscopic glass-transition in Ni-based metallic glass-forming melts. <i>Europhysics Letters</i> , 2011, 95, 26001.	2.0	5
27	The role of local-geometrical-orders on the growth of dynamic-length-scales in glass-forming liquids. <i>Scientific Reports</i> , 2018, 8, 2025.	3.3	5
28	Universal aging characteristics of macroscopically and microscopically dissimilar metallic glasses. <i>Acta Materialia</i> , 2018, 155, 35-42.	7.9	5
29	Characterization of Morphology and Active Agent Mobility within Hybrid Silica Sol-Gel Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13972-13979.	3.1	4
30	Observation of distinct atomic caging in Ce ₈₀ Ni ₂₀ metallic melts. <i>Journal of Alloys and Compounds</i> , 2015, 650, 724-727.	5.5	4
31	Atomic caging in multicomponent glass-forming metallic liquids. <i>Europhysics Letters</i> , 2015, 110, 46001.	2.0	4
32	The logarithmic relaxation process and the critical temperature of liquids in nano-confined states. <i>Scientific Reports</i> , 2016, 6, 33374.	3.3	4
33	Observation of distinct atomic relaxation process in a phase-separated metallic glass-forming melt. <i>Europhysics Letters</i> , 2014, 108, 46001.	2.0	3
34	Influence of packing density and viscosity on the growth of dynamic heterogeneity while cooling metallic melts. <i>Applied Physics Letters</i> , 2016, 109, 051903.	3.3	3
35	Quasielastic Neutron Scattering: An Advanced Technique for Studying the Relaxation Processes in Condensed Matter. , 2016, , 761-813.		2
36	Microscopic origin of the logarithmic relaxation in molecular glass-forming liquids. <i>Physical Review B</i> , 2018, 98, .	3.2	2

#	ARTICLE	IF	CITATIONS
37	Unusual concentration-dependent microscopic dynamics of dendrimers in aqueous solution. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	0
38	Higher-order glass-transition singularities in nano-confined states. RSC Advances, 2017, 7, 47801-47805.	3.6	0