

Ahmad Reza Bahramian

List of Publications by Year in descending order

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81
papers

1,857
citations

257101

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81
all docs

81
docs citations

81
times ranked

1667
citing authors

#	ARTICLE	IF	CITATIONS
1	Ablation and thermal degradation behaviour of a composite based on resol type phenolic resin: Process modeling and experimental. <i>Polymer</i> , 2006, 47, 3661-3673.	1.8	131
2	Ablation mechanism of polymer layered silicate nanocomposite heat shield. <i>Journal of Hazardous Materials</i> , 2009, 166, 445-454.	6.5	96
3	High velocity impact behavior of Kevlar/rubber and Kevlar/epoxy composites: A comparative study. <i>Composite Structures</i> , 2019, 216, 159-167.	3.1	84
4	A Comprehensive Review on Carbon-Based Polymer Nanocomposite Foams as Electromagnetic Interference Shields and Piezoresistive Sensors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2318-2350.	2.0	82
5	Network-gel strength relationship and performance improvement of polyacrylamide hydrogel using nano-silica; with regards to application in oil wells conditions. <i>Journal of Molecular Liquids</i> , 2019, 278, 512-520.	2.3	74
6	Self-assembled and pyrolyzed carbon aerogels: an overview of their preparation mechanisms, properties and applications. <i>Nanoscale</i> , 2015, 7, 14139-14158.	2.8	72
7	Nanostructure of Aerogels and Their Applications in Thermal Energy Insulation. <i>ACS Applied Energy Materials</i> , 2019, 2, 5319-5349.	2.5	71
8	Review on Nanostructure Supporting Material Strategies in Shape-stabilized Phase Change Materials. <i>Journal of Energy Storage</i> , 2020, 29, 101299.	3.9	65
9	High temperature ablation of kaolinite layered silicate/phenolic resin/asbestos cloth nanocomposite. <i>Journal of Hazardous Materials</i> , 2008, 150, 136-145.	6.5	59
10	Polyvinyl Alcohol/Na-Montmorillonite Nanocomposite Hydrogels Prepared by Freezing-Thawing Method: Structural, Mechanical, Thermal, and Swelling Properties. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 1335-1350.	0.4	46
11	Relationship analysis of processing parameters with micro and macro structure of silica aerogel dried at ambient pressure. <i>Journal of Non-Crystalline Solids</i> , 2013, 376, 30-37.	1.5	45
12	Preparation of organic and carbon xerogels using high-temperature-pressure sol-gel polymerization. <i>Materials & Design</i> , 2014, 61, 35-40.	5.1	40
13	High temperature ablation and thermo-physical properties improvement of carbon fiber reinforced composite using graphene oxide nanopowder. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 101, 326-333.	3.8	38
14	On the thermal performance of a novel PCM nanocapsule: The effect of core/shell. <i>Renewable Energy</i> , 2020, 151, 322-331.	4.3	37
15	Synthesis, structure and thermal protective behavior of silica aerogel/PET nonwoven fiber composite. <i>Fibers and Polymers</i> , 2014, 15, 2154-2159.	1.1	35
16	Synthesis, pore structure and properties of polyurethane/silica hybrid aerogels dried at ambient pressure. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 797-804.	2.9	35
17	Numerical and experimental study of impact on hyperelastic rubber panels. <i>Iranian Polymer Journal (English Edition)</i> , 2019, 28, 113-122.	1.3	34
18	Process optimization and modeling of microencapsulated phase change material using response surface methodology. <i>Applied Thermal Engineering</i> , 2014, 70, 183-189.	3.0	33

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19	Impact response of Kevlar/rubber composite. <i>Composites Science and Technology</i> , 2019, 184, 107880.	3.8	32
20	Self-assembly of graphene quantum dots into hydrogels and cryogels: Dynamic light scattering, UV-Vis spectroscopy and structural investigations. <i>Journal of Molecular Liquids</i> , 2018, 265, 172-180.	2.3	29
21	Preparation and characterization of C/SiO ₂ /SiC aerogels based on novolac/silica hybrid hyperporous materials. <i>Journal of Non-Crystalline Solids</i> , 2015, 425, 146-152.	1.5	28
22	Dehydration kinetics of polyvinyl alcohol nanocomposite hydrogels containing Na-montmorillonite nanoclay. <i>Scientia Iranica</i> , 2011, 18, 780-780.	0.3	27
23	Mineral kaolinite clay for preparation of nanocomposite hydrogels. <i>Journal of Applied Polymer Science</i> , 2012, 125, E122.	1.3	25
24	Effect of initial sol concentration on the microstructure and morphology of carbon aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 220-226.	1.1	25
25	The effect of high temperature sol-gel polymerization parameters on the microstructure and properties of hydrophobic phenol-formaldehyde/silica hybrid aerogels. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 103-110.	5.0	25
26	Investigation of microstructure and mechanical properties of novolac/silica and C/SiO ₂ /SiC aerogels using mercury porosimetry method. <i>Journal of Non-Crystalline Solids</i> , 2016, 435, 1-7.	1.5	24
27	Investigation of the effect of rice husk derived Si/SiC on the morphology and thermal stability of carbon composite aerogels. <i>Materials and Design</i> , 2015, 86, 279-288.	3.3	23
28	Novolac-derived carbon aerogels pyrolyzed at high temperatures: experimental and theoretical studies. <i>RSC Advances</i> , 2016, 6, 72777-72790.	1.7	22
29	A polyacrylamide hydrogel for application at high temperature and salinity tolerance in temporary well plugging. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 577-587.	1.3	21
30	Nanoporous Nanocomposite Hydrogels Composed of Polyvinyl Alcohol and Na-montmorillonite. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 1583-1595.	0.4	20
31	Structural, mechanical and thermal behaviors of novolac/graphene oxide nanocomposite aerogels. <i>Journal of Non-Crystalline Solids</i> , 2017, 460, 19-28.	1.5	20
32	Morphology and properties of silica/novolac hybrid xerogels synthesized using sol-gel polymerization at solvent vapor-saturated atmosphere. <i>Materials & Design</i> , 2015, 69, 190-196.	5.1	19
33	Thermal insulation behavior of functionally graded aerogel: The role of novolac molecular-weight. <i>Polymer</i> , 2019, 178, 121575.	1.8	19
34	Correlation between structure and oxidation behavior of carbon aerogels. <i>Journal of Energy Storage</i> , 2016, 7, 195-203.	3.9	18
35	Predicting the effective thermal conductivity of silica/clay mineral nanocomposite aerogels. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 899-910.	2.5	18
36	Synthesis and characterization of paraffin wax nanocapsules with polyurethane shell (PU/PW); the droplet size distribution: A key factor for thermal performance. <i>Renewable Energy</i> , 2021, 163, 720-731.	4.3	18

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37	Carbonitriding synthesis of \hat{I}^2 -SiAlON nanopowder from kaolinite \hat{e} “polyacrylamide precursor. Applied Clay Science, 2011, 52, 407-413.	2.6	17
38	SiAlON nanoparticles effect on the behaviour of epoxy coating. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 70	1.3	16
39	Pyrolysis and flammability properties of novolac/graphite nanocomposites. Fire Safety Journal, 2013, 61, 265-273.	1.4	16
40	Investigation of the effect of temperature and layup on the press forming of polyvinyl chloride-based composite laminates and fiber metal laminates. International Journal of Advanced Manufacturing Technology, 2017, 89, 207-217.	1.5	16
41	Effect of external heat flux on the thermal diffusivity and ablation performance of carbon fiber reinforced novolac resin composite. Iranian Polymer Journal (English Edition), 2013, 22, 579-589.	1.3	15
42	Performance evaluation of polymer/clay nanocomposite thermal protection systems based on polyethylene glycol phase change material. Iranian Polymer Journal (English Edition), 2014, 23, 163-169.	1.3	15
43	Prediction of long \hat{e} term mechanical properties of PVDF/BaTiO ₃ nanocomposite. Journal of Applied Polymer Science, 2014, 131, .	1.3	14
44	Investigation of the effect of sol concentration on the microstructure and morphology of Novolac hyperporous. Journal of Non-Crystalline Solids, 2014, 402, 53-57.	1.5	14
45	High temperature ablation of highly filled polymer \hat{e} layered silicate nanocomposites. Journal of Applied Polymer Science, 2013, 127, 2776-2785.	1.3	13
46	Thermal storage achievement of paraffin wax phase change material systems with regard to novolac aerogel/carbon monofilament/zinc borate form stabilization. Journal of Energy Storage, 2022, 50, 104741.	3.9	12
47	Improvement of ablation and heat shielding performance of carbon fiber reinforced composite using graphite and kaolinite nanopowders. Iranian Polymer Journal (English Edition), 2014, 23, 979-985.	1.3	11
48	Thermochemical erosion and thermophysical properties of phenolic resin/carbon fiber/graphite nanocomposites. Journal of Reinforced Plastics and Composites, 2016, 35, 1814-1825.	1.6	11
49	Thermo-physical properties of multilayer super insulation: The role of aerogel blanket. Thermal Science and Engineering Progress, 2020, 20, 100751.	1.3	11
50	A novel shape-stabilized PEG/novolac resin by sol \hat{e} “gel polymerization. Iranian Polymer Journal (English Edition), 2016, 25, 823-829.	1.3	10
51	Experimental evaluation of blanking and piercing of PVC based composite and hybrid laminates. Advances in Manufacturing, 2016, 4, 248-256.	3.2	10
52	Effect of MgCl ₂ •6H ₂ O Phase Change Material on Thermal Insulation Performance of Carbon Aerogels. Journal of Energy Storage, 2017, 9, 59-68.	3.9	10
53	Evaluation of the effect of aluminum surface treatment on mechanical and dynamic properties of PVC/aluminum/fiber glass fiber metal laminates. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 1197-1205.	1.4	10
54	Theoretical investigation of heat transfer in structurally graded silica aerogels with pores diameter changing. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1713-1721.	2.0	10

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55	A new procedure for Finite Element simulation of forming process of non-homogeneous composite laminates and FMLs. <i>Composite Structures</i> , 2017, 163, 444-453.	3.1	9
56	Enhancement of thermal energy absorption/storage performance of paraffin wax (PW) phase change material by means of chemically synthesized Ethylene Propylene Diene Monomer (EPDM) rubber network. <i>Journal of Energy Storage</i> , 2022, 45, 103646.	3.9	9
57	The Effect of Solvent on Drying Shrinkage of Novolac Xerogels. <i>Advanced Materials Research</i> , 0, 829, 182-186.	0.3	8
58	Shape-stable phenolic/polyethylene glycol phase change material: kinetics study and improvements in thermal properties of nanocomposites. <i>Iranian Polymer Journal (English Edition)</i> , 2018, 27, 495-505.	1.3	8
59	Effect of aerogel spacers on the heat transfer resistance and thermal insulation performance of multilayer super insulators. <i>Experimental Heat Transfer</i> , 2020, 33, 141-154.	2.3	8
60	Effect of graphene oxide on morphological and structural properties of graphene reinforced novolac-derived carbon aerogels: A modified Quasi-Percolation Model. <i>Ceramics International</i> , 2020, 46, 11179-11188.	2.3	8
61	Preparation and characterization of hybrid aerogels from novolac and hydroxyl-terminated polybutadiene. <i>Journal of Materials Science</i> , 2016, 51, 7861-7873.	1.7	7
62	Ablation behavior of organoclay@NBR insulator: Modeling and experimental. <i>Fire and Materials</i> , 2018, 42, 859-872.	0.9	7
63	Improvement in phase-change hybrid nanocomposites material based on polyethylene glycol/epoxy/graphene for thermal protection systems. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 161-169.	1.3	7
64	Analytical effective thermal conductivity model for colloidal porous composites and nanocomposites based on novolac/graphene oxide aerogels. <i>International Journal of Energy Research</i> , 2022, 46, 16608-16628.	2.2	7
65	SiAlON nanoparticles effect on the corrosion and chemical resistance of epoxy coating. <i>Iranian Polymer Journal (English Edition)</i> , 2012, 21, 837-844.	1.3	6
66	Applying machine learning for predicting thermal conductivity coefficient of polymeric aerogels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6227-6238.	2.0	6
67	Effect of expanded graphite surface modification on phase change materials nanocomposites thermal protection efficiency. <i>Polymer Composites</i> , 2022, 43, 1974-1984.	2.3	6
68	Thermal oxidation process of in-situ silicon carbide incorporated carbon aerogel, experimental and kinetic study. <i>Corrosion Science</i> , 2018, 142, 175-184.	3.0	5
69	Relationship of nanostructure and thermo-chemical response/thermal ablation of carbon aerogels. <i>Experimental Heat Transfer</i> , 2019, 32, 303-321.	2.3	5
70	Semi-aromatic polyamide-based nanocomposites: I. in-situ polymerization in the presence of graphene oxide. <i>Polymer Bulletin</i> , 2018, 75, 5387-5402.	1.7	4
71	Scale variation enhancement on heat transfer performance of cubic-like polymeric aerogel: With regard to structural parameters. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 77, 853-871.	1.2	4
72	Novolac aerogel thermal diffusion and efficiency enhancement using paraffin wax core/polyurethane shell phase change material nanocapsules. <i>International Journal of Energy Research</i> , 2022, 46, 1962-1977.	2.2	4

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73	Influence of graphite nano powder on ethylene propylene diene monomer/paraffin wax phase change material composite: Shape stability and thermal applications. Journal of Energy Storage, 2022, 52, 105065.	3.9	4
74	Effect of Rubber Modification on the Morphology and Properties of Novolac Nanostructures. Advanced Materials Research, 0, 829, 41-45.	0.3	3
75	Theoretical relation of the structure and thermal properties of gradient thermal insulator aerogels using fractal geometry. Microporous and Mesoporous Materials, 2022, 333, 111722.	2.2	3
76	Carbon Fiber Reinforced SiAlON for Ultra High Temperature Ablative Heat Shields. International Journal of Applied Ceramic Technology, 2013, 10, 203-214.	1.1	2
77	Investigation and analysis of glass fabric/PVC composite laminates processing parameters. Science and Engineering of Composite Materials, 2018, 25, 529-540.	0.6	2
78	Enhancement of Novolac aerogel nanostructure and cellulose cork on thermal performance and ablation properties of lightweight heat shields: with regard to omission of thermal convection. Experimental Heat Transfer, 2020, 33, 633-649.	2.3	2
79	The Effect of Shear Strain Amplitude and Loading Cycle on the Horizontal Characteristics of Fiber Reinforced Nanocomposite Elastomeric Seismic Isolators. International Polymer Processing, 2013, 28, 168-173.	0.3	1
80	On the kinetic theory of fracture based on thermomechanical properties for fatigue life prediction of filament wound carbon fiber/epoxy composite cylindrical shell. Polymer Composites, 2021, 42, 3320-3330.	2.3	1
81	Chemorheological behavior of SiAlON aqueous suspensions in gelcasting process. Polymer Engineering and Science, 2013, 53, n/a-n/a.	1.5	0