Siti Aishah Binti Abdul Aziz

List of Publications by Year
in descending order

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Version: 2024-02-01

59	805	516710	580821
papers	citations	16	25
		h-index	g-index

61	61	61	457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of radiological risks due to natural radioactivity around Lynas Advanced Material Plant environment, Kuantan, Pahang, Malaysia. Environmental Science and Pollution Research, 2015, 22, 13127-13136.	5.3	78
2	Material Characterizations of Gr-Based Magnetorheological Elastomer for Possible Sensor Applications: Rheological and Resistivity Properties. Materials, 2019, 12, 391.	2.9	48
3	Effects of multiwall carbon nanotubes on viscoelastic properties of magnetorheological elastomers. Smart Materials and Structures, 2016, 25, 077001.	3.5	46
4	Material Characterization of a Magnetorheological Fluid Subjected to Long-Term Operation in Damper. Materials, 2018, 11, 2195.	2.9	40
5	Rheological properties of isotropic magnetorheological elastomers featuring an epoxidized natural rubber. Smart Materials and Structures, 2016, 25, 107001.	3.5	34
6	The field-dependent complex modulus of magnetorheological elastomers consisting of sucrose acetate isobutyrate ester. Journal of Intelligent Material Systems and Structures, 2017, 28, 1993-2004.	2.5	34
7	Implementation of functionalized multiwall carbon nanotubes on magnetorheological elastomer. Journal of Materials Science, 2018, 53, 10122-10134.	3.7	32
8	Role of Additives in Enhancing the Rheological Properties of Magnetorheological Solids: A Review. Advanced Engineering Materials, 2019, 21, 1800696.	3.5	32
9	An enhancement of mechanical and rheological properties of magnetorheological elastomer with multiwall carbon nanotubes. Journal of Intelligent Material Systems and Structures, 2017, 28, 3127-3138.	2.5	31
10	Enhancement of Particle Alignment Using Silicone Oil Plasticizer and Its Effects on the Field-Dependent Properties of Magnetorheological Elastomers. International Journal of Molecular Sciences, 2019, 20, 4085.	4.1	30
11	The field-dependent rheological properties of plate-like carbonyl iron particle-based magnetorheological elastomers. Results in Physics, 2019, 12, 2146-2154.	4.1	30
12	Thermal Stability and Rheological Properties of Epoxidized Natural Rubber-Based Magnetorheological Elastomer. International Journal of Molecular Sciences, 2019, 20, 746.	4.1	26
13	The field-dependent viscoelastic and transient responses of plate-like carbonyl iron particle based magnetorheological greases. Journal of Intelligent Material Systems and Structures, 2019, 30, 788-797.	2.5	22
14	The Effect of Particle Shapes on the Field-Dependent Rheological Properties of Magnetorheological Greases. International Journal of Molecular Sciences, 2019, 20, 1525.	4.1	20
15	Physicochemical characterization and rheological properties of magnetic elastomers containing different shapes of corroded carbonyl iron particles. Scientific Reports, 2021, 11, 868.	3.3	20
16	Characterization of morphological and rheological properties of rigid magnetorheological foams via in situ fabrication method. Journal of Materials Science, 2019, 54, 13821-13833.	3.7	17
17	Rheological and Resistance Properties of Magnetorheological Elastomer with Cobalt for Sensor Application. Applied Sciences (Switzerland), 2020, 10, 1638.	2.5	17
18	A comparative assessment of different dispersing aids in enhancing magnetorheological elastomer properties. Smart Materials and Structures, 2018, 27, 117002.	3.5	16

#	Article	IF	Citations
19	Enhancement of Viscoelastic and Electrical Properties of Magnetorheological Elastomers with Nanosized Ni-Mg Cobalt-Ferrites as Fillers. Materials, 2019, 12, 3531.	2.9	15
20	Rheological Performance of Magnetorheological Grease with Embedded Graphite Additives. Materials, 2021, 14, 5091.	2.9	13
21	The Effect of Microparticles on the Storage Modulus and Durability Behavior of Magnetorheological Elastomer. Micromachines, 2021, 12, 948.	2.9	12
22	Material Characterization of Magnetorheological Elastomers with Corroded Carbonyl Iron Particles: Morphological Images and Field-dependent Viscoelastic Properties. International Journal of Molecular Sciences, 2019, 20, 3311.	4.1	11
23	Magnetic and Tunable Sound Absorption Properties of an In-Situ Prepared Magnetorheological Foam. Materials, 2020, 13, 5637.	2.9	11
24	Constitutive models for predicting field-dependent viscoelastic behavior of magnetorheological elastomer using machine learning. Smart Materials and Structures, 2020, 29, 087001.	3.5	11
25	Microstructural behavior of magnetorheological elastomer undergoing durability evaluation by stress relaxation. Scientific Reports, 2021, 11, 10936.	3.3	11
26	Enhancement of sensitivity of magnetostrictive foam in low magnetic fields for sensor applications. Polymer, 2020, 211, 123083.	3.8	10
27	The Rheological Studies on Poly(vinyl) Alcohol-Based Hydrogel Magnetorheological Plastomer. Polymers, 2020, 12, 2332.	4.5	10
28	Solvent Dependence of the Rheological Properties in Hydrogel Magnetorheological Plastomer. International Journal of Molecular Sciences, 2020, 21, 1793.	4.1	10
29	Effects of silica on mechanical and rheological properties of EPDM-based magnetorheological elastomers. Smart Materials and Structures, 2021, 30, 105033.	3.5	10
30	An Overview of Durability Evaluations of Elastomer-Based Magnetorheological Materials. IEEE Access, 2020, 8, 134536-134552.	4.2	9
31	Shear band formation in magnetorheological elastomer under stress relaxation. Smart Materials and Structures, 2021, 30, 045015.	3.5	9
32	Thermal Aging Rheological Behavior of Magnetorheological Elastomers Based on Silicone Rubber. International Journal of Molecular Sciences, 2020, 21, 9007.	4.1	8
33	Systematic Review on the Effects, Roles and Methods of Magnetic Particle Coatings in Magnetorheological Materials. Materials, 2020, 13, 5317.	2.9	8
34	Sensitivities of Rheological Properties of Magnetoactive Foam for Soft Sensor Technology. Sensors, 2021, 21, 1660.	3.8	8
35	Tunable low range Gr induced magnetorheological elastomer with magnetically conductive feedback. Smart Materials and Structures, 2020, 29, 057001.	3.5	7
36	Temperature Dependent on Mechanical and Rheological Properties of EPDM-Based Magnetorheological Elastomers Using Silica Nanoparticles. Materials, 2022, 15, 2556.	2.9	6

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37	Field-Dependent Rheological Properties of Magnetorheological Elastomer with Fountain-Like Particle Chain Alignment. Micromachines, 2022, 13, 492.	2.9	6
38	Effects of corrosion rate of the magnetic particles on the field-dependent material characteristics of silicone based magnetorheological elastomers. Smart Materials and Structures, 2020, 29, 087003.	3.5	5
39	Relationship between the response of microscopic and magnetic properties with highly uniform dispersion of carbonyl iron particles in magnetorheological polyurethane foam. Smart Materials and Structures, 2020, 29, 115012.	3.5	5
40	Mini review: an insight on the fabrication methods of smart magnetic polymer foam. Journal of Magnetism and Magnetic Materials, 2021, 534, 168038.	2.3	4
41	Non-parametric multiple inputs prediction model for magnetic field dependent complex modulus of magnetorheological elastomer. Scientific Reports, 2022, 12, 2657.	3.3	4
42	Hybrid Magnetorheological Elastomer, the Future of Gait Detection. Key Engineering Materials, 0, 775, 177-183.	0.4	3
43	Effects of magnetic field and particles content on rheology and resistivity behavior of magnetorheological elastomer with embedded cobalt particles. Smart Materials and Structures, 2021, 30, 055002.	3.5	3
44	Effect of Curing Current on Stiffness and Damping Properties of Magnetorheological Elastomers. International Journal of Sustainable Transportation Technology, 2018, 1, 51-58.	0.2	3
45	Comprehensive study on physicochemical characteristics of magnetorheological elastomer featuring epoxidized natural rubber. Smart Materials and Structures, 2022, 31, 055017.	3.5	3
46	Enhancement of the rheological properties of magnetorheological elastomer via polystyreneâ€grafted carbonyl iron particles. Journal of Applied Polymer Science, 2021, 138, 50860.	2.6	2
47	Loss Factor Behavior of Thermally Aged Magnetorheological Elastomers. Materials, 2021, 14, 4874.	2.9	2
48	An Insight into Amorphous Shear Band in Magnetorheological Solid by Atomic Force Microscope. Materials, 2021, 14, 4384.	2.9	2
49	Intrinsic Apparent Viscosity and Rheological Properties of Magnetorheological Grease with Dilution Oils. Lecture Notes in Mechanical Engineering, 2020, , 171-180.	0.4	2
50	The Effect of Graphite Additives on Magnetization, Resistivity and Electrical Conductivity of Magnetorheological Plastomer. Materials, 2021, 14, 7484.	2.9	2
51	Prediction for magnetostriction magnetorheological foam using machine learning method. Journal of Applied Polymer Science, 0, , .	2.6	2
52	Magnetorheological Elastomer Silicone-Based Containing Corroded Carbonyl Iron Particles. Key Engineering Materials, 0, 772, 51-55.	0.4	1
53	Performance of Magnetorheological Elastomer Based Silicone/SAIB. Key Engineering Materials, 2018, 772, 61-65.	0.4	1
54	Effect of Mould Orientation on the Field-Dependent Properties of MR Elastomers under Shear Deformation. Polymers, 2021, 13, 3273.	4.5	1

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55	Effects of Petroleum-Based Oils as Dispersing Aids on Physicochemical Characteristics of Magnetorheological Elastomers. Materials, 2021, 14, 7026.	2.9	1
56	Rheological Properties of Mg Substituted Cobalt Nickel Ferrite Nanoparticles as an Additive in Magnetorheological Elastomer. Lecture Notes in Mechanical Engineering, 2020, , 153-162.	0.4	0
57	Rheological Properties of Magnetorheological Elastomer Using Cobalt Powder as Filler. Lecture Notes in Mechanical Engineering, 2020, , 119-127.	0.4	0
58	Effect of High Sintering Temperature on the Cobalt Ferrite Synthesized Via Co-precipitation Method. Lecture Notes in Mechanical Engineering, 2020, , 233-242.	0.4	0
59	Dual Properties of Polyvinyl Alcohol-Based Magnetorheological Plastomer with Different Ratio of DMSO/Water. Sensors, 2021, 21, 7758.	3.8	0