## CITATION REPORT List of articles citing

Fabrication and characterization of isotropic magnetorheological elastomers

DOI: 10.1016/j.polymertesting.2005.03.015 Polymer Testing, 2005, 24, 669-676.

Source: https://exaly.com/paper-pdf/38058070/citation-report.pdf

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
265	Development of an adaptive tuned vibration absorber with magnetorheological elastomer. <i>Smart Materials and Structures</i> , <b>2006</b> , 15, N111-N116	3.4	278
264	A Tunable Vibration Isolator Using a Magnetorheological Elastomer With a Field Induced Modulus Bias. <b>2007</b> , 99		
263	Adaptive Tuned Vibration Absorber based on Magnetorheological Elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2007</b> , 18, 1205-1210	2.3	116
262	ADAPTIVE TUNED VIBRATION ABSORBER BASED ON MAGNETORHEOLOGICAL ELASTOMER. 2007,		
261	Existence of Bound-Rubber in Magnetorheological Elastomers and Its Influence on Material Properties. <b>2007</b> , 20, 173-179		11
260	STUDY OF UTILIZABLE MAGNETORHEOLOGICAL ELASTOMERS. <b>2007</b> , 21, 4875-4882		44
259	Preparation and properties of magnetorheological elastomers based on silicon rubber/polystyrene blend matrix. <b>2007</b> , 103, 3143-3149		58
258	Oscillations of a magneto-sensitive elastic sphere. <b>2008</b> , 88, 497-506		6
257	Effect of carbon black on the mechanical performances of magnetorheological elastomers. <i>Polymer Testing</i> , <b>2008</b> , 27, 340-345	4.5	140
256	Study on the damping properties of magnetorheological elastomers based on cis-polybutadiene rubber. <i>Polymer Testing</i> , <b>2008</b> , 27, 520-526	4.5	137
255	Magnetostrictive effect of magnetorheological elastomer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 158-163	2.8	158
254	Application of magnetorheological elastomer to vibration absorber. 2008, 13, 1938-1947		154
253	Enhancement in Magnetorheological Effect of Magnetorheological Elastomers by Surface Modification of Iron Particles. <b>2008</b> , 21, 87-92		38
252	The effect of pre-structure process on magnetorheological elastomer performance. <b>2008</b> , 99, 1358-13	64	39
251	Analysis and fabrication of patterned magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 045001	3.4	58
250	Modelling of Magnetosensitive Elastomers. 2008,		3
249	Influence of the transverse magnetic field intensity upon the electric resistance of the magnetorheological elastomer containing graphite microparticles. <b>2009</b> , 63, 2230-2232		75

## (2010-2009)

248	Influence of polyurethane properties on mechanical performances of magnetorheological elastomers. <b>2009</b> , 116, n/a-n/a	10
247	Compressibility modulus and principal deformations in magneto-rheological elastomer: The effect of the magnetic field. <b>2009</b> , 15, 773-776	21
246	Antagonistic variable stiffness elements. <b>2009</b> , 44, 1746-1758	41
245	Influence of magnetic field upon the electric capacity of a flat capacitor having magnetorheological elastomer as a dielectric. <b>2009</b> , 15, 605-609	34
244	Micro-vibration response of a stochastically excited sandwich beam with a magnetorheological elastomer core and mass. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 095005	29
243	Magnetorheological effect of magneto-active elastomers containing large particles. <b>2009</b> , 149, 012098	20
242	Design and control of a real-time variable stiffness vibration isolator. 2009,	20
241	Development of a force sensor working with MR elastomers. <b>2009</b> ,	33
240	Experimental Validation of Numerical Methods of MRE Simulations. 2009, 154, 113-120	O
239	A new variable stiffness absorber based on magneto-rheological elastomer. <b>2009</b> , 19, s611-s615	37
238	Magnetorheological solid composites based on ionic liquids. 2009,	1
237	Low-frequency rheology of magnetically controlled elastomers with isotropic structure. <b>2010</b> , 52, 1344-1354	20
236	Magnetorheological elastomer-based quadrupolar element of electric circuits. <b>2010</b> , 166, 94-98	29
235	Viscoelastic properties of MR elastomers under harmonic loading. <i>Rheologica Acta</i> , <b>2010</b> , 49, 733-740 2.3	205
234	Creep and recovery behaviors of magnetorheological elastomers. <b>2010</b> , 5, 341-346	21
233	Magneto-rheological elastomer (MRE) based composite structures for micro-vibration control. <b>2010</b> , 9, 345-356	13
232	On Magnetorheologic Elastomers for Vibration Isolation, Damping, and Stress Reduction in Mass-varying Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2010</b> , 21, 1463-1469	26
231	Dynamic characterization and modeling of magneto-rheological elastomers under compressive loadings. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 117002	50

230	Performance Comparison between an MRF Damper and an MRE Isolator Incorporated with a Building Structure. <b>2010</b> , 37-38, 862-865		15
229	Isotropic magnetorheological elastomers with thermoplastic matrices: structure, damping properties and testing. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 045014	3.4	52
228	Effect of Cyclic Deformation on Magnetorheological Elastomers. <b>2010</b> , 23, 226-230		20
227	Electric Magnetic Circuit Active Elements Based on Magnetorheological Elastomers. 2010,		
226	The composite MRE embedded with a copper coil. Smart Materials and Structures, 2010, 19, 065023	3.4	11
225	A study of the magnetorheological effect of bimodal particle based magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 035002	3.4	58
224	Investigation of the durability of anisotropic magnetorheological elastomers based on mixed rubber. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 085008	3.4	35
223	Functional behavior of isotropic magnetorheological gels. Smart Materials and Structures, 2010, 19, 085	031.24	28
222	High-Performance Hybrid Magnetorheological Materials: Preparation and Mechanical Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 12471-12476	3.9	26
221	A high-performance magnetorheological material: preparation, characterization and magnetic-mechanic coupling properties. <b>2011</b> , 7, 5246		124
221			124
	magnetic-mechanic coupling properties. <b>2011</b> , 7, 5246  Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under	3.9	
220	magnetic-mechanic coupling properties. 2011, 7, 5246  Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under Non-Homogeneous Magnetic Field. 2011, 101-102, 202-206  Temperature-Dependent Mechanical Properties and Model of Magnetorheological Elastomers.	3.9	4
220	magnetic-mechanic coupling properties. 2011, 7, 5246  Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under Non-Homogeneous Magnetic Field. 2011, 101-102, 202-206  Temperature-Dependent Mechanical Properties and Model of Magnetorheological Elastomers. Industrial & Dependent Mechanical Properties and Model of Magnetorheological Elastomers. Industrial & Dependent Mechanical Properties in Magnetorheological elastomers. Smart Materials and		4 59
220 219 218	magnetic-mechanic coupling properties. 2011, 7, 5246  Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under Non-Homogeneous Magnetic Field. 2011, 101-102, 202-206  Temperature-Dependent Mechanical Properties and Model of Magnetorheological Elastomers. Industrial & amp; Engineering Chemistry Research, 2011, 50, 6704-6712  Interfacial friction damping properties in magnetorheological elastomers. Smart Materials and Structures, 2011, 20, 035007  Magnetomechanical properties of anisotropic and isotropic magnetorheological composites with	3.4	4 59 44
<ul><li>220</li><li>219</li><li>218</li><li>217</li></ul>	Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under Non-Homogeneous Magnetic Field. 2011, 101-102, 202-206  Temperature-Dependent Mechanical Properties and Model of Magnetorheological Elastomers. Industrial & Engineering Chemistry Research, 2011, 50, 6704-6712  Interfacial friction damping properties in magnetorheological elastomers. Smart Materials and Structures, 2011, 20, 035007  Magnetomechanical properties of anisotropic and isotropic magnetorheological composites with thermoplastic elastomer matrices. Smart Materials and Structures, 2011, 20, 085006  Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. Smart Materials and Structures,	3.4	4 59 44 80
<ul><li>220</li><li>219</li><li>218</li><li>217</li><li>216</li></ul>	Analysis of Vibration Characteristics of Magnetorheological Elastomer Sandwich Beam under Non-Homogeneous Magnetic Field. 2011, 101-102, 202-206  Temperature-Dependent Mechanical Properties and Model of Magnetorheological Elastomers. Industrial & amp; Engineering Chemistry Research, 2011, 50, 6704-6712  Interfacial friction damping properties in magnetorheological elastomers. Smart Materials and Structures, 2011, 20, 035007  Magnetomechanical properties of anisotropic and isotropic magnetorheological composites with thermoplastic elastomer matrices. Smart Materials and Structures, 2011, 20, 085006  Experimental investigation of the vibration characteristics of a magnetorheological elastomer sandwich beam under non-homogeneous small magnetic fields. Smart Materials and Structures, 2011, 20, 127001	3·4 3·4 3·4	4 59 44 80

## (2013-2011)

212	Micro-vibration suppression of equipment supported on a floor incorporating magneto-rheological elastomer core. <b>2011</b> , 330, 4369-4383		22	
211	Studies on Microstructural and Thermophysical properties of polymer nanocomposite based on polyphenylene oxide and Ferrimagnetic iron oxide. <i>Polymer Testing</i> , <b>2011</b> , 30, 155-160	4.5	12	
210	Design and Control of a Real-Time Variable Modulus Vibration Isolator. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 113-125	2.3	51	
209	Anisotropic Silicone Rubber Based Magnetorheological Elastomer with Oil Silicone and Iron Microparticles. <b>2012</b> , 190, 645-648		10	
208	A novel porous magnetorheological elastomer: preparation and evaluation. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 035001	3.4	52	
207	Development of a real-time tunable stiffness and damping vibration isolator based on magnetorheological elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 25-33	2.3	125	
206	Magnetorheological visco-elastomer and its application to suppressing microvibration of sandwich plates. <b>2012</b> ,		1	
205	Influence of carbon black and plasticisers on dynamic properties of isotropic magnetosensitive natural rubber. <b>2012</b> , 41, 310-317		16	
204	Smart Materials Based on Magnetorheological Composites. <b>2012</b> , 714, 167-173		8	
203	The investigation on the nonlinearity of plasticine-like magnetorheological material under oscillatory shear rheometry. <b>2012</b> , 56, 1375-1391		58	
202	Magnetic-Field-Induced Normal Force of Magnetorheological Elastomer under Compression Status. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 3322-3328	3.9	54	
201	Control of the Damping Properties of Magnetorheological Elastomers by Using Polycaprolactone as a Temperature-Controlling Component. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6395-6403	3.9	48	
200	Microstructure and Properties of Magnetorheological Elastomers. 2012,		38	
199	Characterization of actuation properties of magnetorheological elastomers with embedded hard magnetic particles. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 1049-1054	2.3	68	
198	Sensing and Rheological Capabilities of MR Elastomers. <b>2012</b> ,			
197	The frequency, amplitude and magnetic field dependent torsional stiffness of a magneto-sensitive rubber bushing. <b>2012</b> , 60, 54-58		17	
196	Experiments and modeling of iron-particle-filled magnetorheological elastomers. <b>2012</b> , 60, 120-138		280	
195	Advances in Elastomers I. <b>2013</b> ,		18	

194	Dynamic stability of magnetorheological elastomer based adaptive sandwich beam with conductive skins using FEM and the harmonic balance method. <b>2013</b> , 77, 205-216		37
193	Stability of anisotropic magnetorheological elastomers in finite deformations: A micromechanical approach. <b>2013</b> , 61, 949-967		76
192	Indirect energy flow measurement in magneto-sensitive vibration isolator systems. <b>2013</b> , 74, 575-584		6
191	Multi-axial fatigue in magnetorheological elastomers using bubble inflation. <b>2013</b> , 50, 68-71		27
190	Magnetic-field-dependent shear modulus of a magnetorheological elastomer based on natural rubber. <b>2013</b> , 62, 220-228		14
189	Magnetorheological Elastomers and Their Applications. <b>2013</b> , 357-374		44
188	Study of magnetorheology and sensing capabilities of MR elastomers. <b>2013</b> , 412, 012037		6
187	Effect of Cross-Link Density of the Matrix on the Damping Properties of Magnetorheological Elastomers. <i>Industrial &amp; Elastomers (Magnetorheological Research)</i> 2013, 52, 771-778	3.9	36
186	Interfacial adhesion between the iron fillers and the silicone matrix in magneto-rheological elastomers at high deformations. <b>2013</b> ,		2
185	Fabrication and characterization of PDMS based magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 055035	3.4	64
184	A highly adjustable magnetorheological elastomer base isolator for applications of real-time adaptive control. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 095020	3.4	95
183	Development of a Dynamic Vibration Absorber with Variable Stiffness Property Using Magneto-Rheological Elastomer. <b>2013</b> , 79, 3680-3690		O
182	Investigation on variable shear modulus of magnetorheological elastomer based on natural rubber due to change of fabrication design. <b>2013</b> , 53, 992-1000		15
181	Study of PDMS based magnetorheological elastomers. <b>2013</b> , 412, 012038		18
180	Fabrication and characterisation of patterned magnetorheological elastomers. 2013,		6
179	The Determination of Multi-Axial Fatigue in Magnetorheological Elastomers Using Bubble Inflation. <b>2014</b> , 875-877, 507-511		
178	Experimental Investigation of Effect of Ingredient Particle Size on Dynamic Damping of RTV Silicone Base Magnetorheological Elastomers. <b>2014</b> , 5, 2301-2309		9
177	MRE-Based Adaptive-Tuned Dynamic Absorber With Self-Sensing Function for Vibration Control of Structures. <b>2014</b> ,		

176	Viscoelastic Properties of Magnetorheological Elastomers for Damping Applications. <b>2014</b> , 299, n/a-n/a		18
175	Stochastic micro-vibration suppression of a sandwich plate using a magneto-rheological visco-elastomer core. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 025019	3.4	17
174	Experimental study of the magnetic field enhanced Payne effect in magnetorheological elastomers. <b>2014</b> , 10, 8765-76		113
173	Design and analyses of axial semi-active dynamic vibration absorbers based on magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 2199-2207	2.3	38
172	Modulus-tunable magnetorheological elastomer microcantilevers. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 055017	3.4	10
171	Viscoelastic Parameter Model of Magnetorheological Elastomers Based on Abel Dashpot. <b>2014</b> , 6, 62938	36	20
170	Experimental Investigation on the Field-Dependent Properties of Magnetorheological Elastomer with Circular Honeycomb Holes. <b>2015</b> , 1,		4
169	Design of a Real-Time Adaptively Tuned Dynamic Vibration Absorber with a Variable Stiffness Property Using Magnetorheological Elastomer. <b>2015</b> , 2015, 1-11		15
168	A laminated magnetorheological elastomer bearing prototype for seismic mitigation of bridge superstructures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2015</b> , 26, 1818-1825	2.3	35
167	A dimorphic magnetorheological elastomer incorporated with Fe nano-flakes modified carbonyl iron particles: preparation and characterization. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 115021	3.4	15
166	Study on the performance of magnetorheological elastomers and engineering application. <b>2015</b> , 19, S8-168-S8-173		1
165	Temperature-dependent dynamic mechanical properties of magnetorheological elastomers under magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 374, 283-288	2.8	23
164	Stochastic microvibration response analysis of a magnetorheological viscoelastomer based sandwich beam under localized magnetic fields. <b>2015</b> , 39, 5559-5566		10
163	Semi-active control of a sandwich beam partially filled with magnetorheological elastomer. <b>2015</b> , 60-61, 695-705		58
162	Magnetic and viscoelastic response of elastomers with hard magnetic filler. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 035002	3.4	80
161	Preparation and characterization of a novel magnetorheological elastomer based on polyurethane/epoxy resin IPNs matrix. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 045009	3.4	28
160	Behavior of magnetorheological elastomers with coated particles. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 035026	3.4	26
159	Magnetostriction and Field Stiffening of Magneto-Active Elastomers. <b>2015</b> , 07, 1550001		34

158	Topology optimization of magnetorheological fluid layers in sandwich plates for semi-active vibration control. <i>Smart Materials and Structures</i> , <b>2015</b> , 24, 085024	11
157	Tensions and deformations in composites based on polyurethane elastomer and magnetorheological suspension: Effects of the magnetic field. <b>2015</b> , 28, 86-90	34
156	Fabrication and characterization of magnetorheological elastomer with carbon black. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2015</b> , 26, 830-839	41
155	Forecasting hysteresis behaviours of magnetorheological elastomer base isolator utilizing a hybrid model based on support vector regression and improved particle swarm optimization. <i>Smart</i> Materials and Structures, <b>2015</b> , 24, 035025	15
154	Recent Progress on Magnetorheological Solids: Materials, Fabrication, Testing, and Applications. <b>2015</b> , 17, 563-597	231
153	Physicochemical and Viscoelastic Properties of Magnetorheological Solids. <b>2016</b> , 308-308	1
152	Investigation and modelling of damping mechanisms of magnetorheological elastomers. <b>2016</b> , 133, n/a-n/a	9
151	Investigation on magnetic field dependent modulus of epoxidized natural rubber based magnetorheological elastomer. <b>2016</b> , 776, 012024	3
150	Effect of the carbonyl iron particles on damping properties of magnetorheological elastomers based on natural rubber. <b>2016</b> ,	
149	A hysteresis model for dynamic behaviour of magnetorheological elastomer base isolator. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 055029	25
148	Broadband vibration control of a structure by using a magnetorheological elastomer-based tuned dynamic absorber. <b>2016</b> , 40, 128-136	26
147	Creep behavior of magnetorheological elastomers under combined magnetic and mechanical loads. <b>2016</b> ,	5
146	Rheological properties of isotropic magnetorheological elastomers featuring an epoxidized natural rubber. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 107001	30
145	A broadband frequency-tunable dynamic absorber for the vibration control of structures. <b>2016</b> , 744, 012167	O
144	Experimental investigation on the effect of magnetic field on strain dependent dynamic stiffness of magnetorheological elastomer. <i>Rheologica Acta</i> , <b>2016</b> , 55, 993-1001	8
143	Fabrication and viscoelastic characteristics of waste tire rubber based magnetorheological elastomer. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 115026	14
142	Improved mechanical properties of magneto rheological elastomeric composite with isotropic iron filler distribution. <b>2016</b> , 28, 155-161	9
141	Electro- and Magneto-Rheological Materials. <b>2016</b> , 189-215	

140	Dynamics of Smart Systems and Structures. <b>2016</b> ,		7
139	Magnetic Driving Flowerlike Soft Platform: Biomimetic Fabrication and External Regulation. <i>ACS Applied Materials &amp; Applied &amp; Applied Materials &amp; Applied &amp; </i>	9.5	82
138	Frequency-tunable electromagnetic energy harvester using magneto-rheological elastomer. Journal of Intelligent Material Systems and Structures, <b>2016</b> , 27, 959-979	2.3	9
137	A new approach for modeling of magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2016</b> , 27, 1121-1135	2.3	62
136	Experimental Investigation of an Adaptively Tuned Dynamic Absorber Incorporating Magnetorheological Elastomer with Self-Sensing Property. <b>2016</b> , 56, 871-880		15
135	Dynamic analysis of tapered laminated composite magnetorheological elastomer (MRE) sandwich plates. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 035006	3.4	19
134	Creep and recovery behaviors of magnetorheological elastomer based on polyurethane/epoxy resin IPNs matrix. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 015020	3.4	25
133	Shock attenuation mechanisms of magnetorheological elastomers absorbers: A theoretical analysis. <b>2017</b> , 51, 721-730		2
132	Advances in structural vibration control application of magneto-rheological visco-elastomer. <b>2017</b> , 7, 61-66		9
131	On rate-dependent mechanical model for adaptive magnetorheological elastomer base isolator. Smart Materials and Structures, <b>2017</b> , 26, 045001	3.4	7
130	Modeling and Verification of Relaxation Behavior for Magnetorheological Elastomers with Applied Magnetic Field. <b>2017</b> , 730, 527-532		5
129	A novel phenomenological model for dynamic behavior of magnetorheological elastomers in tensionElompression mode. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 065011	3.4	36
128	Dynamic Characterization and Modeling of Isotropic Magnetorheological Elastomers Under Tensile-Compressive Loadings. <i>IEEE Transactions on Magnetics</i> , <b>2017</b> , 53, 1-12	2	16
127	The magnetic field dependent dynamic properties of magnetorheological elastomers based on hard magnetic particles. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 075012	3.4	24
126	Iron particle and anisotropic effects on mechanical properties of magneto-sensitive elastomers. Journal of Magnetism and Magnetic Materials, <b>2017</b> , 441, 105-112	2.8	24
125	The field-dependent complex modulus of magnetorheological elastomers consisting of sucrose acetate isobutyrate ester. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 1993-2004	2.3	29
124	Understanding the reinforcing behaviors of polyaniline-modified carbonyl iron particles in magnetorheological elastomer based on polyurethane/epoxy resin IPNs matrix. <b>2017</b> , 139, 36-46		75
123	Energy conversion in magneto-rheological elastomers. <b>2017</b> , 18, 766-778		20

122	Anisotropic magnetorheological elastomers for mechanical to electrical energy conversion. <b>2017</b> , 122, 103902		9
121	Limit points in the free inflation of a magnetoelastic toroidal membrane. <b>2017</b> , 95, 248-263		8
120	Hysteretic behavior of soft magnetic elastomer composites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 426, 60-63	2.8	23
119	Equi-biaxial fatigue behaviour of magnetorheological elastomers in magnetic fields. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 687-696	2.3	5
118	Magnetic (ethyleneBctene) elastomer composites obtained by extrusion. <b>2017</b> , 57, 520-527		4
117	Development of a semi-active dynamic vibration absorber for longitudinal vibration of propulsion shaft system based on magnetorheological elastomer. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 075009	3.4	18
116	Experimental Investigation of the Magnetorheological Behavior of PDMS Elastomer Reinforced with Iron Micro/Nanoparticles. <i>Polymers</i> , <b>2017</b> , 9,	4.5	23
115	Magnetostrictive polymer composites: Recent advances in materials, structures and properties. <b>2018</b> , 97, 204-229		65
114	Investigation of tensile properties of RTV Silicone based Isotropic Magnetorheological Elastomers <i>MATEC Web of Conferences</i> , <b>2018</b> , 144, 02015	0.3	2
113	Vibration Response Characteristics of Quasi-Periodic Sandwich Beam With Magnetorheological Visco-Elastomer Core Under Random Support Excitations. <b>2018</b> , 140,		11
112	Probing of the magnetic responsive behavior of magnetorheological organogel under step field perturbation. <b>2018</b> , 296, 309-317		7
111	Electromagnetically Responsive Soft-Flexible Robots and Sensors for Biomedical Applications and Impending Challenges. <b>2018</b> , 43-72		9
110	Edgewise Bending Vibration Analysis of a Rotating Sandwich Beam with Magnetorheological Elastomer Core. <b>2018</b> , 18, 1850134		11
109	Investigations on response time of magnetorheological elastomer under compression mode. <i>Smart Materials and Structures</i> , <b>2018</b> , 27, 055017	3.4	26
108	Dynamic characterization of tapered laminated composite sandwich plates partially treated with magnetorheological elastomer. <i>Journal of Sandwich Structures and Materials</i> , <b>2018</b> , 20, 308-350	2.1	17
107	Fabrication and characterisation of anisotropic magnetorheological elastomer with 45 <sup>th</sup> iron particle alignment at various silicone oil concentrations. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 151-159	2.3	48
106	Experimental Investigation of Static Properties of Magnetorheological Elastomer. <b>2018</b> , 42, 185-197		9
105	Stress relaxation behavior of magnetorheological elastomer: Experimental and modeling study.  Journal of Intelligent Material Systems and Structures, 2018, 29, 205-213	2.3	26

104	Experimental investigation of the coupled magneto-mechanical response in magnetorheological elastomers. <b>2018</b> , 58, 207-221		45	
103	Experimental investigation on the effect of carbon nanotube additive on the field-induced viscoelastic properties of magnetorheological elastomer. <b>2018</b> , 53, 4229-4241		22	
102	Instabilities in the axisymmetric magnetoelastic deformation of a cylindrical membrane. <b>2018</b> , 136-137, 203-219		11	
101	An EPDM/MVQ polymer blend based magnetorheological elastomer with good thermostability and mechanical performance. <b>2018</b> , 14, 8521-8528		27	
100	Effect of Filler Morphology on Viscoelastic Properties of PDMS-Based Magnetorheological Elastomers. <b>2018</b> , 3, 3695-3707		1	
99	Study on dynamic mechanical properties of magnetorheological elastomers based on natural rubber/thermoplastic elastomer hybrid matrix. <b>2018</b> , 5, 115705		4	
98	Investigations on the properties of NH4HCO3filled natural rubber based magnetorheological elastomers (MREs). <b>2018</b> , 5, 045307		2	
97	Broadband nonlinear behaviour of a soft magneto-sensitive elastomer cantilever under low-frequency and low-magnitude excitation. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 3165-3184	2.3	3	
96	Fuzzy control study on a transformer vibration isolation system. 2018,		O	
95	Magnetic Particle Filled Elastomeric Hybrid Composites and Their Magnetorheological Response. <i>Materials</i> , <b>2018</b> , 11,	3.5	29	
94	Effect of carbon black with large particle size on dynamic mechanical analysis of magnetorheological elastomers (MREs). <b>2018</b> , 5, 095703		8	
93	Versatile magnetorheological plastomer with 3D printability, switchable mechanics, shape memory, and self-healing capacity. <b>2019</b> , 183, 107817		28	
92	Investigation of the Effect of Carbonyl Iron Micro-Particles on the Mechanical and Rheological Properties of Isotropic and Anisotropic MREs: Constitutive Magneto-Mechanical Material Model. <i>Polymers</i> , <b>2019</b> , 11,	4.5	11	
91	Enhancement of Particle Alignment Using Silicone Oil Plasticizer and Its Effects on the Field-Dependent Properties of Magnetorheological Elastomers. <b>2019</b> , 20,		13	
90	Experimental characterization and microscale modeling of isotropic and anisotropic magnetorheological elastomers. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107311	10	27	
89	Dynamic mechanical properties of FeSi alloy particles-filled magnetorheological elastomers. <b>2019</b> , 58, 1625-1637		1	
88	Material Characterizations of Gr-Based Magnetorheological Elastomer for Possible Sensor Applications: Rheological and Resistivity Properties. <i>Materials</i> , <b>2019</b> , 12,	3.5	32	
87	Significance of particle size on the improved performance of magnetorheological gels. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 490, 165483	2.8	6	

86	Review of Structural Control Technologies Using Magnetorheological Elastomers. <b>2019</b> , 4, 22-28		5
85	A novel method for dynamic characterization of angular displacement-dependent viscoelastic properties of magnetorheological elastomer under torsional loading conditions. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 075034	3.4	4
84	In situ latex synthesis of magnetic polymer nanocomposites for application in magnetorheological materials. <b>2019</b> , 30, 2005-2016		4
83	Study of crosslink structure and dynamic mechanical properties of magnetorheological elastomer: Effect of vulcanization system. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2019</b> , 30, 1189-11	9 <del>3</del> .3	7
82	Magnetorheological Elastomer Material Modeling and Parameter Determination by Using the Energy-based Method. <b>2019</b> , 1-15		
81	Study on the Effect of Particle Size on Viscoelastic Properties of Magnetorheological Elastomers. <b>2019</b> , 4, 59-67		3
80	Dynamic rheological properties of polyurethane-based magnetorheological gels studied using oscillation shear tests <i>RSC Advances</i> , <b>2019</b> , 9, 10124-10134	3.7	10
79	A study of the heat transfer properties of CIP doped magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 025027	3.4	6
78	Development of a field dependent Prandtl-Ishlinskii model for magnetorheological elastomers. <i>Materials and Design</i> , <b>2019</b> , 166, 107608	8.1	25
77	Thermal Stability and Rheological Properties of Epoxidized Natural Rubber-Based Magnetorheological Elastomer. <b>2019</b> , 20,		15
76	Transient responses of magnetorheological elastomer and isolator under shear mode. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 044002	3.4	8
75	Dynamic Mechanical Hysteresis of Magnetorheological Elastomers Subjected to the Cyclic Loading and Periodic Magnetic Field. <b>2019</b> , 6,		9
74	Fabrication and mechanical behaviors of ironflickel foam reinforced magnetorheological elastomer. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 115039	3.4	4
73	Magnetorheological Elastomers: Materials and Applications. 2019,		17
72	Investigation on the Mechanical Properties of MRE Compounds. 2019, 7, 36		8
71	Role of Additives in Enhancing the Rheological Properties of Magnetorheological Solids: A Review. <b>2019</b> , 21, 1800696		15
70	Performance of natural rubber and silicone-based magnetorheological elastomers under large-strain combined axial and shear loading. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2019</b> , 30, 228-242	2.3	7
69	Fabrication and dynamic viscoelastic properties of MR elastomers with silicone oil. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2019</b> , 59, 349-355	0.4	2

## (2020-2019)

68	On the properties of magnetorheological elastomers in shear mode: Design, fabrication and characterization. <i>Composites Part B: Engineering</i> , <b>2019</b> , 159, 269-283	10	63
67	Dynamic stability enhancement of laminated composite sandwich plates using smart elastomer layer. <i>Journal of Sandwich Structures and Materials</i> , <b>2020</b> , 22, 2796-2817	2.1	11
66	Temperature dependent magneto-mechanical properties of magnetorheological elastomers. Journal of Magnetism and Magnetic Materials, <b>2020</b> , 497, 165998	2.8	13
65	Effects of magnetic particles and carbon black on structure and properties of magnetorheological elastomers. <i>Polymer Testing</i> , <b>2020</b> , 81, 106233	4.5	14
64	Dynamic characterization of isotropic and anisotropic magnetorheological elastomers in the oscillatory squeeze mode superimposed on large static pre-strain. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107648	10	25
63	A review on magneto-mechanical characterizations of magnetorheological elastomers. <i>Composites Part B: Engineering</i> , <b>2020</b> , 200, 108348	10	85
62	Magnetorheological Elastomers: Fabrication, Characteristics, and Applications. <i>Materials</i> , <b>2020</b> , 13,	3.5	20
61	Magnetorheological Effect of Magnetoactive Elastomer with a Permalloy Filler. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
60	Reinforcing Behaviors of Sulfur-Containing Silane Coupling Agent in Natural Rubber-Based Magnetorheological Elastomers with Various Vulcanization Systems. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
59	Investigation into a Conductive Composite Matrix Based on Magnetically Sensitive Flexible Sponges. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15967-15978	3.9	5
58	Beyond Human Hand: Shape-Adaptive and Reversible Magnetorheological Elastomer-Based Robot Gripper Skin. <i>ACS Applied Materials &amp; Districted Sciences</i> , <b>2020</b> , 12, 44147-44155	9.5	7
57	Tunable Young's Moduli of Soft Composites Fabricated from Magnetorheological Materials Containing Microsized Iron Particles. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
56	Magneto-Sensitive Smart Materials and Magnetorheological Mechanism. 2020,		4
55	A Review of Magnetic Elastomers and Their Role in Soft Robotics. <i>Frontiers in Robotics and AI</i> , <b>2020</b> , 7, 588391	2.8	26
54	Anisotropic behaviour analysis of silicone/carbonyl iron particles magnetorheological elastomers. <i>Rheologica Acta</i> , <b>2020</b> , 59, 469-476	2.3	8
53	Recent developments in semi-active control of magnetorheological materials-based sandwich structures: A review. <i>Journal of Thermoplastic Composite Materials</i> , <b>2020</b> , 089270572093074	1.9	7
52	Investigation of dynamic properties of isotropic and anisotropic magnetorheological elastomers with a hybrid magnet shear test rig. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 114001	3.4	3
51	Extension-Torsion-Inflation Coupling in Compressible Magnetoelastomeric Thin Tubes with Helical Magnetic Anisotropy. <i>Journal of Elasticity</i> , <b>2020</b> , 140, 273-302	1.5	4

50	Adaptive elastic metastructures from magneto-active elastomers. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 065004	3.4	24
49	Creep behavior of magnetorheological gels. <i>Mechanics of Advanced Materials and Structures</i> , <b>2020</b> , 27, 1031-1039	1.8	1
48	Application of Adaptive Tuned Magneto-Rheological Elastomer for Vibration Reduction of a Plate by a Variable-Unbalance Excitation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3934	2.6	4
47	Development and characterization of a novel hybrid magnetorheological elastomer incorporating micro and nano size iron fillers. <i>Materials and Design</i> , <b>2020</b> , 192, 108748	8.1	16
46	Experimental and finite element vibration analysis of CNT reinforced MR elastomer sandwich beam. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-13	1.7	17
45	Magnet-induced deformation enhanced adhesion based on magneto-responsive polymer: Theoretical analysis and experimental verification. <i>Materials and Design</i> , <b>2020</b> , 194, 108905	8.1	7
44	Tunable low range Gr induced magnetorheological elastomer with magnetically conductive feedback. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 057001	3.4	3
43	The dielectric and magnetic properties of RTV-silicon rubber Nittr ferrite composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	12
42	Performance of magnetorheological elastomer based torsional vibration isolation system for dynamic loading conditions. <i>Journal of Central South University</i> , <b>2020</b> , 27, 144-154	2.1	3
41	A stable high-performance isotropic electrorheological elastomer towards controllable and reversible circular motion. <i>Composites Part B: Engineering</i> , <b>2020</b> , 193, 107988	10	7
40	Dynamic analysis of laminated composite sandwich beam containing carbon nanotubes reinforced magnetorheological elastomer. <i>Journal of Sandwich Structures and Materials</i> , <b>2021</b> , 23, 1784-1807	2.1	12
39	Compensation of Magnetic Force of an Electromagnet for Compression Mode Characterization of Magnetorheological Elastomers. <i>IEEE Transactions on Magnetics</i> , <b>2021</b> , 57, 1-14	2	3
38	Improving transient magnetorheological response of magnetorheological elastomer by incorporating CIP@FeNi particles. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 024002	3.4	1
37	Application of smart fluid to control vibration in metal cutting: a review. <i>World Journal of Engineering</i> , <b>2021</b> , 18, 458-479	1.8	4
36	Modeling and analysis of a magnetoelastic annular membrane placed in an azimuthal magnetic field. <i>Mathematics and Mechanics of Solids</i> , 108128652199751	2.3	О
35	The Effect of Microparticles on the Storage Modulus and Durability Behavior of Magnetorheological Elastomer. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	2
34	Effects of silica on mechanical and rheological properties of EPDM-based magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 105033	3.4	О
33	The friction parameter regulation of magnetorheological elastomers by the initial arrangement and evolution of microscopic ferromagnetic particles. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 025022	3.4	1

32	Characterization and modeling of temperature effect on the shear mode properties of magnetorheological elastomers. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 115001	3.4	4
31	Recent progress of magnetorheological elastomers: a review. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 123002	3.4	38
30	Stochastic micro-vibration response characteristics of a sandwich plate with MR visco-elastomer core and mass. <i>Smart Structures and Systems</i> , <b>2015</b> , 16, 141-162		4
29	Experimental Evaluation of a Variable Shear Modulus Characteristic for Magnetorheological Elastomer Due to Induced Current. <i>Journal of Testing and Evaluation</i> , <b>2015</b> , 43, 20130282	1	2
28	Vibration performances of MRE embedded sandwich beam: experimental study. <i>Vibroengineering PROCEDIA</i> , <b>2018</b> , 21, 20-25	0.4	2
27	Novel semiactive suspension using a magnetorheological elastomer (MRE)-based absorber and adaptive neural network controller for systems with input constraints. <i>Mechanical Sciences</i> , <b>2020</b> , 11, 465-479	1.3	8
26	Magnetorheological Elastomer-Based Self-Powered Triboelectric Nanosensor for Monitoring Magnetic Field. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
25	Review of Current Research Progress Related to Magnetorheological Elastomer Material. <i>Journal of Materials Research and Technology</i> , <b>2021</b> ,	5.5	1
24	Introduction. <b>2014</b> , 1-8		1
23	Effect of Curing Current on Stiffness and Damping Properties of Magnetorheological Elastomers. <i>International Journal of Sustainable Transportation Technology</i> , <b>2018</b> , 1, 51-58	0.5	2
22	Rheological Behavior of Graphite Induced Anisotropic Magnetorheological Elastomer. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 163-170	0.4	O
21	Magnetostriction in elastomers with mixtures of magnetically hard and soft microparticles: effects of nonlinear magnetization and matrix rigidity. <i>ChemistrySelect</i> , <b>2020</b> ,	1.8	O
20	Investigation of tensile properties of RTV Silicone based Isotropic Magnetorheological Elastomers <i>MATEC Web of Conferences</i> , <b>2018</b> , 144, 02015	0.3	
19	Dynamic Behavior of Sandwich Structures with Magnetorheological Elastomer: A Review. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
18	Experimental and modeling investigations on the quasi-static compression properties of isotropic silicone rubber-based magnetorheological elastomers under the magnetic fields ranging from zero to saturation field. <i>Smart Materials and Structures</i> , <b>2022</b> , 31, 015029	3.4	1
17	A Novel MRE Adaptive Seismic Isolator Using Curvelet Transform Identification. <i>Applied Sciences</i> (Switzerland), <b>2021</b> , 11, 11409	2.6	3
16	Experimental investigation on the influence of temperature on the hysteresis behavior of magnetorheological gel by employing a large-amplitude-oscillation-shear test method <i>RSC Advances</i> , <b>2022</b> , 12, 2416-2424	3.7	1
15	Modeling of magnetorheolological gels: a study on the particle size effect. <i>Acta Mechanica</i> , <b>2022</b> , 233, 837	2.1	O

14	The Normal Force Characteristic of a Novel Magnetorheological Elastomer Based on Butadiene Rubber Matrix Compounded with the Self-Fabricated Silly Putty. <i>Advances in Materials Science and Engineering</i> , <b>2021</b> , 2021, 1-13	1.5	1
13	Non-parametric multiple inputs prediction model for magnetic field dependent complex modulus of magnetorheological elastomer <i>Scientific Reports</i> , <b>2022</b> , 12, 2657	4.9	1
12	Deformation properties of novel chain-like structural magneto-active elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2210774	2.3	
11	Comprehensive Study on Physicochemical Characteristics of Magnetorheological Elastomer featuring Epoxidized Natural Rubber. <i>Smart Materials and Structures</i> ,	3.4	Ο
10	Development of a Performance-Enhanced Hybrid Magnetorheological Elastomer-Fluid for Semi-Active Vibration Isolation: Static and Dynamic Experimental Characterization <i>Materials</i> , <b>2022</b> , 15,	3.5	1
9	Force and stiffness behavior of natural rubber based magnetorheological elastomer bushing. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2022</b> , 1-19	0.4	
8	Giant magnetostriction in low-concentration magnetorheological elastomers. <i>Composites Part B: Engineering</i> , <b>2022</b> , 110125	10	1
7	Enhanced performance of nano-sized maghemite added carbonyl iron-based magnetorheological soft elastomer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2022</b> , 560, 169659	2.8	1
6	Magnetic soft robots: Design, actuation, and function. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 922, 16	62 <del>39</del>	O
5	Response adjustable performance of a visco-elastomer sandwich plate with harmonic parameters and distributed supported masses under random loading. 002029402211050		Ο
4	Research on Properties of Dopamine and Silicon Carbon Black Modified Basalt Fiber Reinforced Magnetorheological Elastomer. <b>2022</b> , 14, 3949		О
3	Magnetic Field-Induced Deformation of Isotropic Magnetorheological Elastomers. <b>2022</b> , 8, 146		1
2	Determination of shear behavior of magneto-rheological elastomers under harmonic loading. 009524	432211	476
1	Thixotropic Magnetorheological Fluid for Controlled Vibration Mounts. 1085, 125-130		Ο