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Performance of isotropic magnetorheological rubber materia

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#	Paper	IF	Citations
270	Oxidation of natural rubber-based magnetorheological elastomers. 2004 , 86, 467-471		54
269	STUDY OF MECHANICAL BEHAVIOR AND MICROSTRUCTURE OF MAGNETORHEOLOGICAL ELASTOMERS. 2005 , 19, 1304-1310		15
268	Magnetic Fluids Bibliography (2001-2004). <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 289, 486-533		1
267	Fabrication and characterization of isotropic magnetorheological elastomers. <i>Polymer Testing</i> , 2005 , 24, 669-676	4.5	246
266	Amplitude and frequency dependence of magneto-sensitive rubber in a wide frequency range. <i>Polymer Testing</i> , 2005 , 24, 656-662	4.5	42
265	Magneto-sensitive rubber in a noise reduction context [Exploring the potential. 2005 , 34, 365-371		14
264	Magnetorheological Devices. 2006 , 165-169		1
263	Particle mixtures in magnetorheological elastomers (MREs). 2006 ,		5
262	Nickel and iron nano-particles in natural rubber composites. <i>Journal of Materials Science</i> , 2006 , 41, 5359-5364	4.364	29
261	Effect of the processing conditions on the microstructure of urethane magnetorheological elastomers. 2006 ,		5
260	MANUFACTURE OF BULK MAGNETORHEOLOGICAL ELASTOMERS USING VACUUM ASSISTED RESIN TRANSFER MOLDING. 2007 , 21, 5010-5017		17
259	A Tunable Vibration Isolator Using a Magnetorheological Elastomer With a Field Induced Modulus Bias. 2007 , 99		
258	VISCOELASTIC PROPERTIES OF SILICONE-BASED MAGNETORHEOLOGICAL ELASTOMERS. 2007 , 21, 4790-4797	9	
257	Microstructure-property relationships of urethane magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2007 , 16, 1924-1930	3.4	60
256	Dynamic compression testing of a tunable spring element consisting of a magnetorheological elastomer. <i>Smart Materials and Structures</i> , 2007 , 16, 506-514	3.4	131
255	Study on the damping properties of magnetorheological elastomers based on cis-polybutadiene rubber. <i>Polymer Testing</i> , 2008 , 27, 520-526	4.5	137
254	Dynamic characterization of bimodal particle mixtures in silicone rubber magnetorheological materials. <i>Polymer Testing</i> , 2008 , 27, 931-935	4.5	34

253	Particle dispersibility and giant reduction in dynamic modulus of magnetic gels containing barium ferrite and iron oxide particles. 2008 , 112, 14132-9		35
252	Enhancement in Magnetorheological Effect of Magnetorheological Elastomers by Surface Modification of Iron Particles. 2008 , 21, 87-92		38
251	The effect of pre-structure process on magnetorheological elastomer performance. 2008 , 99, 1358-1364		39
250	Magnetorheological elastomers with high variability of their mechanical properties. 2009 , 149, 012090		51
249	Characterisation of dynamic mechanical behaviour of magnetoelastomers. 2009 , 38, 313-320		12
248	Preload, frequency, vibrational amplitude and magnetic field strength dependence of magnetosensitive rubber. 2009 , 38, 321-326		19
247	Dynamic Characterization of Magneto-Rheological Elastomers in Shear Mode. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3930-3933	2	32
246	Preparation and characterization of isotropic polyurethane magnetorheological elastomer through in situ polymerization. 2009 , 114, 901-910		42
245	Influence of polyurethane properties on mechanical performances of magnetorheological elastomers. 2009 , 116, n/a-n/a		10
244	Image analysis of the microstructure of magnetorheological elastomers. <i>Journal of Materials Science</i> , 2009 , 44, 3135-3140	4-3	27
243	Smart composites of urethane elastomers with carbonyl iron. <i>Journal of Materials Science</i> , 2009 , 44, 4104-4111	4-3	73
242	Influence of iron content on thermal stability of magnetic polyurethane foams. 2009 , 94, 246-252		13
241	Magnetorheological effect of magneto-active elastomers containing large particles. 2009 , 149, 012098		20
240	Dynamic Testing and Modeling of Magneto-Rheological Elastomers. 2009 ,		2
239	Magnetorheology of Magnetic Composite Gels. 2009 , 82, 356-362		1
238	Magnetic-field Sensitive Gels with Wide Modulation of Dynamic Modulus. 2009 , 38, 922-923		45
237	Vibration Characteristics of Sandwich Beams with Steel Skins and Magnetorheological Elastomer Cores. 2010 , 13, 837-847		28
236	Viscoelastic properties of MR elastomers under harmonic loading. <i>Rheologica Acta</i> , 2010 , 49, 733-740	2-3	205

235	Creep and recovery behaviors of magnetorheological elastomers. 2010 , 5, 341-346		21
234	Magnetorheology of Magnetic Composites Gels. 2010 , 37, 47-54		
233	Tuning Active Magnetorheological Elastomers for Damping Applications. <i>Materials Science Forum</i> , 2010 , 636-637, 766-771	0.4	20
232	Dynamic characterization and modeling of magneto-rheological elastomers under compressive loadings. <i>Smart Materials and Structures</i> , 2010 , 19, 117002	3.4	50
231	Isotropic magnetorheological elastomers with thermoplastic matrices: structure, damping properties and testing. <i>Smart Materials and Structures</i> , 2010 , 19, 045014	3.4	52
230	Enhanced hardening of soft self-assembled copolymer gels under homogeneous magnetic fields. 2010 , 6, 4497		78
229	Magnetorheological polydimethylsiloxane micro-optical resonator. 2010 , 35, 2037-9		23
228	Anisotropic polyurethane magnetorheological elastomer prepared through in situ polycondensation under a magnetic field. <i>Smart Materials and Structures</i> , 2010 , 19, 105007	3.4	52
227	Magnetic polyurethane elastomers with wide range modulation of elasticity. 2011 , 2, 1063-1067		95
226	ON SURFACE WAVES IN A FINITELY DEFORMED MAGNETOELASTIC HALF-SPACE. 2011 , 03, 633-665		14
225	Investigating new symmetry classes in magnetorheological elastomers: cantilever bending behavior. <i>Smart Materials and Structures</i> , 2011 , 20, 105022	3.4	31
224	Smart Magnetic Composites (SMC). 2011 ,		
223	Microstructure and magnetorheology of graphite-based MR elastomers. <i>Rheologica Acta</i> , 2011 , 50, 825-836		77
222	Magneto-sensitive Elastomers in a Homogeneous Magnetic Field: A Regular Rectangular Lattice Model. 2011 , 20, 411-424		89
221	Numerical solution of finite geometry boundary-value problems in nonlinear magnetoelasticity. <i>International Journal of Solids and Structures</i> , 2011 , 48, 874-883	3.1	46
220	Magnetorheological Elastomer: State and Application. 2011 , 393-395, 161-165		1
219	SOFT MAGNETORHEOLOGICAL ELASTOMERS AS ACTIVE MATERIALS IN NOVEL VALVES. 2011 ,		
218	Magnetomechanical behavior of Fe/PU magnetorheological elastomers. 2011 , 45, 1545-1552		19

217	Study of the Performance of Practical Magneto-Rheological Elastomers. 2012 , 430-432, 1979-1983		
216	A novel porous magnetorheological elastomer: preparation and evaluation. <i>Smart Materials and Structures</i> , 2012 , 21, 035001	3-4	52
215	Influence of carbon black and plasticisers on dynamic properties of isotropic magnetosensitive natural rubber. 2012 , 41, 310-317		16
214	Measurement of plantar pressure and development of prototype for haptic device on sole of foot with magnetic field sensitive elastomer. 2012 ,		
213	Magnetorheological fluid in natural rubber devices. 2012 ,		
212	Soft magnetorheological elastomers as new actuators for valves. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 989-994	2-3	125
211	The pressure-dependent MR effect of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2012 , 21, 075014	3-4	18
210	Smart Materials Based on Magnetorheological Composites. <i>Materials Science Forum</i> , 2012 , 714, 167-173	0-4	8
209	Modeling of Magneto-Rheological Elastomers for Harmonic Shear Deformation. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3080-3083	2	49
208	Magnetic-Field-Induced Normal Force of Magnetorheological Elastomer under Compression Status. 2012 , 51, 3322-3328		54
207	Magnetically tunable elasticity for magnetic hydrogels consisting of carrageenan and carbonyl iron particles. 2012 , 116, 12341-8		77
206	Control of the Damping Properties of Magnetorheological Elastomers by Using Polycaprolactone as a Temperature-Controlling Component. 2012 , 51, 6395-6403		48
205	The level of cross-linking and the structure of anisotropic magnetorheological elastomers. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3452-3454	2-8	53
204	Nonlinear rheological study of magneto responsive soft gels. 2012 , 53, 4164-4170		55
203	Microstructure and Properties of Magnetorheological Elastomers. 2012 ,		38
202	On Love-type waves in a finitely deformed magnetoelastic layered half-space. 2012 , 63, 1177-1200		11
201	Characterization of actuation properties of magnetorheological elastomers with embedded hard magnetic particles. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 1049-1054	2-3	68
200	Sensing and Rheological Capabilities of MR Elastomers. 2012 ,		

199	Direct energy flow measurement in magneto-sensitive vibration isolator systems. 2012 , 331, 1994-2006		17
198	Rheological behavior of magnetic nanofluids containing spherical nanoparticles of FeNi. 2012 , 224, 86-89		43
197	Improving the magnetorheological properties of polyurethane magnetorheological elastomer through plasticization. 2012 , 123, 2476-2484		40
196	Advances in Elastomers I. 2013 ,		18
195	Magneto-rheological foams capable of tunable energy absorption. 2013 ,		2
194	Modification of the ultrasonic properties of elastomers loaded with magnetic particles by applying magnetic fields during curing. 2013 ,		
193	Smart polyurethane foam with magnetic field controlled modulus and anisotropic compression property. 2013 , 3, 3241		48
192	Indirect energy flow measurement in magneto-sensitive vibration isolator systems. 2013 , 74, 575-584		6
191	Magnetic-field-dependent shear modulus of a magnetorheological elastomer based on natural rubber. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 220-228	0.6	14
190	Magnetorheological Elastomers and Their Applications. 2013 , 357-374		44
189	Study of magnetorheology and sensing capabilities of MR elastomers. 2013 , 412, 012037		6
188	Predicating magnetorheological effect of magnetorheological elastomers under normal pressure. 2013 , 412, 012035		4
187	Measurements on the Temperature, Dynamic Strain Amplitude and Magnetic Field Strength Dependence of the Dynamic Shear Modulus of Magnetosensitive Elastomers in a Wide Frequency Range. 2013 , 135,		11
186	Magnetorheological Effect of NDI Polyurethane-Based MR Elastomers. 2013 , 750-752, 832-835		2
185	Vibration analysis of a three-layer magnetorheological elastomer embedded sandwich beam with conductive skins using finite element method. 2013 , 227, 714-729		17
184	A highly adjustable magnetorheological elastomer base isolator for applications of real-time adaptive control. <i>Smart Materials and Structures</i> , 2013 , 22, 095020	3-4	95
183	Investigation on variable shear modulus of magnetorheological elastomer based on natural rubber due to change of fabrication design. 2013 , 53, 992-1000		15
182	Magnetorheological Elastomers: A Review. 2014 , 695, 255-259		5

181	Mechanical properties of magneto-sensitive elastomers: unification of the continuum-mechanics and microscopic theoretical approaches. 2014 , 10, 2213-25		72
180	Dynamic mechanical properties, magnetic and electrical behavior of iron oxide/ethylene vinyl acetate nanocomposites. 2014 , 35, 1989-1996		26
179	A state-of-the-art review on magnetorheological elastomer devices. <i>Smart Materials and Structures</i> , 2014 , 23, 123001	3-4	314
178	Characterization of the linear viscoelastic region of magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 2074-2081	2-3	53
177	A Review of Magnetorheological Elastomers: Characterization Properties for Seismic Protection. 2014 , 237-248		5
176	Applicability of elastomer time-dependent behavior in dynamic mechanical damping systems. 2014 , 18, 139-151		13
175	Viscoelastic Properties of Magnetorheological Elastomers for Damping Applications. 2014 , 299, n/a-n/a		18
174	Mechanical Properties of Magneto-Sensitive Elastomers in a Homogeneous Magnetic Field: Theory and Experiment. 2014 , 338, 96-107		24
173	Magnetorheological brush - a soft structure with highly tuneable stiffness. 2014 , 10, 1537-43		12
172	Experimental study of the magnetic field enhanced Payne effect in magnetorheological elastomers. 2014 , 10, 8765-76		113
171	Synthesis and Characterization of Surface Grafted Poly(N-isopropylacrylamide) and Poly(Carboxylic Acid)- Iron Particles via Atom Transfer Radical Polymerization for Biomedical Applications. 2014 , 131,		5
170	Magnetorheology of Polydimethylsiloxane Elastomer/FeCo ₃ Nanocomposite. 2014 , 118, 25684-25703		38
169	Numerical simulation and experimental validation of the large deformation bending and folding behavior of magneto-active elastomer composites. <i>Smart Materials and Structures</i> , 2014 , 23, 094004	3-4	27
168	Research on new type MRE isolator and its mechanical model. 2014 , 18, S2-552-S2-558		5
167	Matrix dependence of the linear viscoelastic region in magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1880-1886	2-3	27
166	Magnetic and viscoelastic response of elastomers with hard magnetic filler. <i>Smart Materials and Structures</i> , 2015 , 24, 035002	3-4	80
165	Dynamic shear response of hardversussoft magnetic magnetoactive elastomers. <i>Smart Materials and Structures</i> , 2015 , 24, 025022	3-4	6
164	Dynamic properties of magnetorheological elastomers based on iron sand and natural rubber. 2015 , 132, n/a-n/a		33

163	Preparation and characterization of a novel magnetorheological elastomer based on polyurethane/epoxy resin IPNs matrix. <i>Smart Materials and Structures</i> , 2015 , 24, 045009	3-4	28
162	Fabrication and characterization of magnetorheological elastomer with carbon black. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 830-839	2-3	41
161	Numerical solution of some boundary value problems in nonlinear magneto-elasticity. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 156-171	2-3	14
160	Dynamic mechanical analysis of magnetorheological composites containing silica-coated carbonyl iron powder. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1899-1905	2-3	20
159	Potential Implementation of Electronic Waste Based Magnetite Powder for Magnetorheological Elastomers. 2015 , 1123, 373-377		
158	A principal axis formulation for nonlinear magnetoelastic deformations: Isotropic bodies. 2015 , 50, 17-27		13
157	Recent Progress on Magnetorheological Solids: Materials, Fabrication, Testing, and Applications. 2015 , 17, 563-597		231
156	Physicochemical and Viscoelastic Properties of Magnetorheological Solids. 2016 , 308-308		1
155	EXPERIMENTAL STUDY ON MECHANICAL PROPERTIES OF MAGNETORHEOLOGICAL ELASTOMER. 2016 , 78,		
154	Magnetorheological fluids based on a hyperbranched polycarbosilane matrix and iron microparticles. <i>Smart Materials and Structures</i> , 2016 , 25, 055016	3-4	11
153	Dynamic blocked transfer stiffness method of characterizing the magnetic field and frequency dependent dynamic viscoelastic properties of MRE. 2016 , 28, 301-313		15
152	Magnetorheological elastomer based on silicone rubber, carbonyl iron and Rochelle salt: Effects of alternating electric and static magnetic fields intensities. 2016 , 37, 312-318		33
151	Evolution of the magnetization response of magneto-active elastomers made with hard-magnetic M-type barium hexaferrite particles. 2016 , 1, 39-43		10
150	Polymeric foam-ferromagnet composites as smart lightweight materials. <i>Smart Materials and Structures</i> , 2016 , 25, 055014	3-4	15
149	Influence of carbonyl iron particle coating with silica on the properties of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2016 , 25, 105030	3-4	16
148	Maximum attenuation variability of isotropic magnetosensitive elastomers. <i>Polymer Testing</i> , 2016 , 54, 104-113	4-5	6
147	Single-particle mechanism of magnetostriction in magnetoactive elastomers. 2016 , 93, 062503		9
146	Experimental investigation on the effect of magnetic field on strain dependent dynamic stiffness of magnetorheological elastomer. <i>Rheologica Acta</i> , 2016 , 55, 993-1001	2-3	8

145	Transient magnetorheological response of magnetoactive elastomers to step and pyramid excitations. 2016 , 12, 2901-13		29
144	Evaluation of Magnetorheological Elastomers With Oriented Fe ₃ O ₄ Alloy Flakes for Force Sensing Applications. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	8
143	Test setup for examination of magneto-mechanical properties of magnetorheological elastomers with use of a novel approach. 2016 , 16, 294-303		7
142	Magnetic carbonyl iron/natural rubber composite elastomer and its magnetorheology. 2016 , 136, 106-112		106
141	A novel spectral formulation for transversely isotropic magneto-elasticity. 2017 , 22, 1158-1176		18
140	Test rig development and characterization of magnetorheological elastomers. 2017 ,		6
139	Preparation of magnetorheological elastomers and their slip-free characterization by means of parallel-plate rotational rheometry. <i>Smart Materials and Structures</i> , 2017 , 26, 085004	3-4	13
138	A large-scale adaptive magnetorheological elastomer-based bridge bearing. 2017 ,		2
137	Tunable Absorption System based on magnetorheological elastomers and Halbach array: design and testing. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 435, 46-57	2.8	15
136	Energy conversion in magneto-rheological elastomers. 2017 , 18, 766-778		20
135	Magnetoactive elastomer as an element of a magnetic retina fixator. <i>Smart Materials and Structures</i> , 2017 , 26, 095054	3-4	16
134	Effect of synthesis variables on viscoelastic properties of elastomers filled with carbonyl iron powder. <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	8
133	Magnetorheological response of highly filled magnetoactive elastomers from perspective of mechanical energy density: Fractal aggregates above the nanometer scale?. 2017 , 95, 062501		28
132	Dynamic deformation-dependent magnetic field-induced force transmissibility characteristics of magnetorheological elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 1491-1500 ³		7
131	Modified silane-coated carbonyl iron/natural rubber composite elastomer and its magnetorheological performance. 2017 , 160, 1020-1026		53
130	Magnetic field and frequency dependent LVE limit characterization of magnetorheological elastomer. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 1365-1373	2	8
129	Magnetic (ethylene-butene) elastomer composites obtained by extrusion. 2017 , 57, 520-527		4
128	Magnetostrictive polymer composites: Recent advances in materials, structures and properties. 2018 , 97, 204-229		65

127	Investigation of tensile properties of RTV Silicone based Isotropic Magnetorheological Elastomers.. <i>MATEC Web of Conferences</i> , 2018 , 144, 02015	0.3	2
126	A state of art on magneto-rheological materials and their potential applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 2051-2095	2.3	119
125	Magnetomechanical properties of composites and fibers made from thermoplastic elastomers (TPE) and carbonyl iron powder (CIP). <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 258-263	2.8	10
124	Experimental and theoretical study of temperature-dependent variable stiffness of magnetorheological elastomers. 2018 , 109, 113-128		9
123	Fabrication and characterisation of anisotropic magnetorheological elastomer with 45 μ m iron particle alignment at various silicone oil concentrations. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 151-159	2.3	48
122	Finite deformations and incremental axisymmetric motions of a magnetoelastic tube. 2018 , 23, 950-983		6
121	Experimental investigation of the coupled magneto-mechanical response in magnetorheological elastomers. 2018 , 58, 207-221		45
120	Effect of Filler Morphology on Viscoelastic Properties of PDMS-Based Magnetorheological Elastomers. 2018 , 3, 3695-3707		1
119	Static and Dynamic Characterization of Magnetorheological Elastomers Under Shear Mode Operation. 2018 ,		
118	Experimental dynamic analysis of composite sandwich beams with magnetorheological honeycomb core. 2018 , 176, 231-242		44
117	Study on dynamic mechanical properties of magnetorheological elastomers based on natural rubber/thermoplastic elastomer hybrid matrix. <i>Materials Research Express</i> , 2018 , 5, 115705	1.7	4
116	Investigations on the properties of NH ₄ HCO ₃ filled natural rubber based magnetorheological elastomers (MREs). <i>Materials Research Express</i> , 2018 , 5, 045307	1.7	2
115	Fabrication and Characterization of Natural Rubber-Based Magnetorheological Elastomers at Large Strain for Base Isolators. 2018 , 2018, 1-12		10
114	Magnetic Particle Filled Elastomeric Hybrid Composites and Their Magnetorheological Response. <i>Materials</i> , 2018 , 11,	3.5	29
113	Effect of carbon black with large particle size on dynamic mechanical analysis of magnetorheological elastomers (MREs). <i>Materials Research Express</i> , 2018 , 5, 095703	1.7	8
112	Design of Self-Healing Rubber by Introducing Ionic Interaction To Construct a Network Composed of Ionic and Covalent Cross-Linking. 2019 , 58, 14848-14858		36
111	The study of natural rubber/polybutadiene rubber hybrid matrix-based magnetorheological elastomer. 2019 , 089270571987822		1
110	Magnetorheological gel based on mineral oil and polystyrene-b-poly(ethene-co-butadiene)-b-polystyrene. <i>Smart Materials and Structures</i> , 2019 , 28, 105016 ^{3,4}	2.4	2

109	Research Status and Engineering Application of Magnetorheological Elastomers. 2019 , 563, 032018		
108	Magneto-elastic properties of isotropic MR elastomers with a tri-modal particle size distribution. <i>Polymer Testing</i> , 2019 , 80, 106105	4.5	2
107	A novel approach for fabricating adjustable zero field-modulus magnetorheological elastomer based on IPN matrix. <i>Materials Research Express</i> , 2019 , 6, 105706	1.7	
106	Preparation and dynamic characterization of polymer based magnetorheological elastomer for vibration isolator. 2019 ,		
105	On anisotropic mechanical properties of heterogeneous magnetic polymeric composites. 2019 , 377, 20180212		10
104	Effect of nanomagnetic particle on mechanics performance of magneto-rheological fluid. 2019 , 17, 119-125		3
103	Particle orientation and bulk properties of magnetoactive elastomers fabricated with aligned barium hexaferrite. 2019 , 34, 972-981		1
102	Development of a field dependent Prandtl-Ishlinskii model for magnetorheological elastomers. 2019 , 166, 107608		25
101	Thermal Stability and Rheological Properties of Epoxidized Natural Rubber-Based Magnetorheological Elastomer. 2019 , 20,		15
100	Rheological properties of micro-nano magneto-rheological fluid. 2019 , 9, 827-830		0
99	Magnetorheological Elastomers: Materials and Applications. 2019 ,		17
98	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> , 2019 , 30, 228-242	2.3	7
97	A numerical-experimental dynamic analysis of composite sandwich beam with magnetorheological elastomer honeycomb core. 2019 , 209, 242-257		47
96	Temperature effect on viscoelastic properties of anisotropic magnetorheological elastomers under compression. <i>Smart Materials and Structures</i> , 2019 , 28, 015005	3.4	15
95	On the properties of magnetorheological elastomers in shear mode: Design, fabrication and characterization. <i>Composites Part B: Engineering</i> , 2019 , 159, 269-283	10	63
94	Effects of magnetic particles and carbon black on structure and properties of magnetorheological elastomers. <i>Polymer Testing</i> , 2020 , 81, 106233	4.5	14
93	A novel approach to characterize the magnetic field and frequency dependent dynamic properties of magnetorheological elastomer for torsional loading conditions. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 498, 166169	2.8	4
92	Experimental characterization and viscoelastic modeling of isotropic and anisotropic magnetorheological elastomers. <i>Polymer Testing</i> , 2020 , 81, 106272	4.5	26

91	The study of enhancement of magnetorheological effect based on natural rubber/thermoplastic elastomer SEBS hybrid matrix. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 339-348	2-3	2
90	Improved distribution homogeneity of carbonyl iron particles in magnetorheological elastomers by adding zinc dimethacrylate. <i>Smart Materials and Structures</i> , 2020 , 29, 025021	3-4	6
89	A review on magneto-mechanical characterizations of magnetorheological elastomers. <i>Composites Part B: Engineering</i> , 2020 , 200, 108348	10	85
88	Magnetorheological Elastomers: Fabrication, Characteristics, and Applications. <i>Materials</i> , 2020 , 13,	3-5	20
87	Beyond Human Hand: Shape-Adaptive and Reversible Magnetorheological Elastomer-Based Robot Gripper Skin. 2020 , 12, 44147-44155		7
86	Magneto-Sensitive Smart Materials and Magnetorheological Mechanism. 2020 ,		4
85	Variational principles of nonlinear magnetoelastostatics and their correspondences. 2020 , 108128652097580		
84	A Review of Magnetic Elastomers and Their Role in Soft Robotics. 2020 , 7, 588391		26
83	Anisotropic behaviour analysis of silicone/carbonyl iron particles magnetorheological elastomers. <i>Rheologica Acta</i> , 2020 , 59, 469-476	2-3	8
82	Comprehensive review of parameters influencing the performance of magnetorheological elastomers embedded in beams. 2020 , 26, 2130-2135		2
81	Highly Flexible Multilayered e-Skins for Thermal-Magnetic-Mechanical Triple Sensors and Intelligent Grippers. 2020 , 12, 15675-15685		21
80	Development of a small-deformation material model for an isotropic magneto-active elastomer. 2020 , 231, 2287-2301		2
79	Development and characterization of a novel hybrid magnetorheological elastomer incorporating micro and nano size iron fillers. 2020 , 192, 108748		16
78	Magnetic and dynamic mechanical properties of a highly coercive MRE based on NdFeB particles and a stiff matrix. <i>Smart Materials and Structures</i> , 2020 , 29, 105009	3-4	2
77	Design and application of an improved vulcanization apparatus for magnetorheological elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 1676-1688	2-3	
76	Composite magnetorheological elastomers for tactile displays: Enhanced MR-effect through bi-layer composition. <i>Composites Part B: Engineering</i> , 2020 , 190, 107888	10	19
75	Performance of magnetorheological elastomer based torsional vibration isolation system for dynamic loading conditions. 2020 , 27, 144-154		3
74	A new magnetic-responsive hybrid soft composite with tunable equivalent tensile modulus: a proof-of-concept. <i>Smart Materials and Structures</i> , 2020 , 29, 077001	3-4	2

73	Finite deformation analysis of isotropic magnetoactive elastomers. 2021 , 33, 163-178		2
72	Experimental and numerical research of stress relaxation behavior of magnetorheological elastomer. <i>Polymer Testing</i> , 2021 , 93, 106886	4.5	9
71	Effect of pre-strain on compression mode properties of magnetorheological elastomers. <i>Polymer Testing</i> , 2021 , 93, 106888	4.5	11
70	Experimental and numerical analysis on magneto-hyper-viscoelastic constitutive responses of magnetorheological elastomers: A characterization procedure. <i>Mechanics of Materials</i> , 2021 , 154, 103712-3	3.3	5
69	Magnetically Controlled Soft Robotics Utilizing Elastomers and Gels in Actuation: A Review. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000186	6	25
68	Transversely isotropic magnetoactive elastomers: theory and experiments. <i>Archive of Applied Mechanics</i> , 2021 , 91, 375-392	2.2	2
67	Physicochemical characterization and rheological properties of magnetic elastomers containing different shapes of corroded carbonyl iron particles. <i>Scientific Reports</i> , 2021 , 11, 868	4.9	4
66	Anisotropic magnetorheological elastomers with carbonyl iron particles in natural rubber and acrylonitrile butadiene rubber: A comparative study. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 1604-1613	2.3	4
65	Controlling magnetic properties of 3D-printed magnetic elastomer structures via fused deposition modeling. <i>AIP Advances</i> , 2021 , 11, 025223	1.5	6
64	Magnetorheological elastomers [An underestimated class of soft actuator materials. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 1550-1564	2.3	7
63	Investigation of the Structural Response of the MRE-Based MDOF Isolated Structure under Historic Near- and Far-Fault Earthquake Loadings. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2876	2.6	4
62	SYNERGISTIC MAGNETORHEOLOGICAL NR/BR ELASTOMER BLEND WITH ELECTROLYTIC IRON PARTICLES. <i>Rubber Chemistry and Technology</i> , 2021 ,	1.7	1
61	A constitutive model of the dynamic shear modulus dependence on temperature, prestrain, dynamic strain amplitude and magnetic field for magneto-sensitive elastomer. <i>International Journal of Solids and Structures</i> , 2021 , 219-220, 106-119	3.1	2
60	Modelling and experimental characterisation of a compressional adaptive magnetorheological elastomer isolator. <i>JVC/Journal of Vibration and Control</i> , 107754632110253	2	1
59	An explicit dissipative model for isotropic hard magnetorheological elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 151, 104361	5	19
58	Magneto-Sensitive Rubber in a Vehicle Application Context [Exploring the Potential. <i>Frontiers in Materials</i> , 2021 , 8,	4	1
57	Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer. <i>Journal of Materials Science</i> , 2021 , 56, 15752-15766	4.3	1
56	Study on the dynamic mechanical properties of magnetorheological elastomer (MRE) with . <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2110387	2.3	

55	Dynamic response of a MRE sandwich structure under a non-homogenous magnetic field. <i>Journal of the Korean Physical Society</i> , 2021 , 79, 864	0.6	1
54	Mechanical properties of bulk Sylgard 184 and its extension with silicone oil. <i>Scientific Reports</i> , 2021 , 11, 19090	4.9	2
53	Effect of alignment of magnetic particles on the rheological properties of natural rubber composite. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	0
52	Effects of silica on mechanical and rheological properties of EPDM-based magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2021 , 30, 105033	3.4	0
51	Investigation of Dispersion, Interfacial Adhesion of Isotropic and Anisotropic Filler in Polymer Composite. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8561	2.6	1
50	New experimental insights into magneto-mechanical rate dependences of magnetorheological elastomers. <i>Composites Part B: Engineering</i> , 2021 , 224, 109148	10	13
49	Magnetic Particle Reinforced Elastomer Composites for Additive Manufacturing. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
48	Effect of Particles Alignment on Giant Reduction in Dynamic Modulus of Hydrogels Containing Needle-Shaped Magnetic Particles. 2009 , 163-170		2
47	Chapter 14:Magnetorheological Materials and their Applications. 2007 , 339-385		11
46	Recent progress of magnetorheological elastomers: a review. <i>Smart Materials and Structures</i> , 2020 , 29, 123002	3.4	38
45	Adaptive tuned dynamic vibration absorbers working with MR elastomers. <i>Smart Structures and Systems</i> , 2009 , 5, 517-529		59
44	Magneto-mechanical properties of elastic hybrid composites. <i>ChemistrySelect</i> , 2020 ,	1.8	1
43	Experimental Evaluation of a Variable Shear Modulus Characteristic for Magnetorheological Elastomer Due to Induced Current. <i>Journal of Testing and Evaluation</i> , 2015 , 43, 20130282	1	2
42	Vibration performances of MRE embedded sandwich beam: experimental study. <i>Vibroengineering PROCEDIA</i> , 2018 , 21, 20-25	0.4	2
41	Reinforced Smart Foams Produced with Time-Profiled Magnetic Fields. <i>Polymers</i> , 2020 , 13,	4.5	1
40	Dynamic Behavior Analysis of the Sandwich Beam Structure with Magnetorheological Honeycomb Core under Different Magnetic Intensities: A Numerical Approach. <i>Materials Science Forum</i> , 1047 , 31-38	0.4	2
39	Investigation on the tunability of the band structure of two-dimensional magnetorheological elastomers phononic crystals plate. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 544, 168704	2.8	0
38	Introduction. 2014 , 1-8		1

37	Experimental Investigation of MR Effect to RTV Silicone Rubber-based Magneto-rheological Materials. <i>Cumhuriyet Science Journal</i> , 2017 , 38, 563-571	0.4	1
36	Effect of Curing Current on Stiffness and Damping Properties of Magnetorheological Elastomers. <i>International Journal of Sustainable Transportation Technology</i> , 2018 , 1, 51-58	0.5	2
35	Magnetomechanical Effects in the Elastic Polymer Composites Containing Ferromagnetic Powder Particles. <i>Metallofizika I Noveishie Tekhnologii</i> , 2018 , 40, 1221-1230	0.5	
34	A new type of electromagnetic system for magnetorheological elastomer (MRE)-based base isolation system. 2019 ,		
33	Influence of particles size and concentration of carbonyl iron powder on magnetorheological properties of silicone rubber-based magnetorheological elastomer. <i>Materials Research Express</i> , 2020 , 7, 086101	1.7	2
32	Ring-like structures in magnetoactive elastomers based on magnetic hard powder. <i>Smart Materials and Structures</i> , 2021 , 30, 015023	3.4	1
31	Hybrid magnetic elastomers prepared on the basis of a SIEL-grade resin and their magnetic and rheological properties. <i>ChemistrySelect</i> , 2020 ,	1.8	3
30	Enhancement of Isotropic Magnetorheological Elastomer Properties by Silicone Oil. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 285-292	0.4	0
29	Investigation of tensile properties of RTV Silicone based Isotropic Magnetorheological Elastomers.. <i>MATEC Web of Conferences</i> , 2018 , 144, 02015	0.3	
28	Development of multi-layered electromagnetic system for improving base isolator using a magnetorheological elastomer. <i>Smart Materials and Structures</i> , 2020 , 29, 114002	3.4	3
27	Performance enhancement of an MRE-based isolator using a multi-layered electromagnetic system. <i>Smart Materials and Structures</i> , 2022 , 31, 015028	3.4	1
26	Magnetic-based polydimethylsiloxane cap for simultaneous measurement of magnetic field and temperature. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	0
25	Static and Modal Analysis of Sandwich Beam Structure with Magnetorheological Honeycomb Core. 2020 ,		1
24	A macroscopic viscoelastic model of magnetorheological elastomer with different initial particle chain orientation angles based on fractional viscoelasticity. <i>Smart Materials and Structures</i> , 2022 , 31, 025025	3.4	1
23	Influence of chain-like cobalt particles on the properties of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2022 , 31, 035007	3.4	1
22	Effects of graphene oxide on microstructure and mechanical properties of isotropic polydimethylsiloxane-based magnetorheological elastomers. <i>Rheologica Acta</i> , 2022 , 61, 215-228	2.3	0
21	Hyperelastic Material Parameter Determination and Numerical Study of TPU and PDMS Dampers.. <i>Materials</i> , 2021 , 14,	3.5	1
20	Aspect Ratio Dependency of Magneto-Rheological Elastomers in Dynamic Tension-Compression Loading. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	

19	An experimental study on dynamic behaviour of a sandwich beam with 3D printed hexagonal honeycomb core filled with magnetorheological elastomer (MRE). <i>Smart Materials and Structures</i> , 2022 , 31, 055004	3.4	0
18	Influence of pre-structure orientation on the linear viscoelastic limit of magnetorheological elastomers. <i>Journal of Intelligent Material Systems and Structures</i> , 1045389X2210943	2.3	0
17	Effect of nano-Fe ₃ O ₄ on normal force of magnetorheological fluid. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2022 , 53, 698-704	0.9	
16	Analyzing the influence of the core pre-structure on the dynamic response of a magnetorheological elastomer sandwich structure. <i>Smart Materials and Structures</i> , 2022 , 31, 075027	3.4	1
15	Developing the viscoelastic model and model-based fuzzy controller for the MRE isolator for the wide frequency range vibration isolation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44,	2	
14	Giant magnetostriction in low-concentration magnetorheological elastomers. <i>Composites Part B: Engineering</i> , 2022 , 110125	10	1
13	Enhanced performance of nano-sized maghemite added carbonyl iron-based magnetorheological soft elastomer. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 560, 169659	2.8	1
12	Analysis and design of a semi-active X-structured vibration isolator with magnetorheological elastomers. <i>Mechanical Systems and Signal Processing</i> , 2022 , 181, 109492	7.8	1
11	Atom Transfer Radical Polymerization of Pyrrole-Bearing Methacrylate for Production of Carbonyl Iron Particles with Conducting Shell for Enhanced Electromagnetic Shielding. 2022 , 23, 8540		0
10	Research on Properties of Dopamine and Silicon Carbon Black Modified Basalt Fiber Reinforced Magnetorheological Elastomer. 2022 , 14, 3949		0
9	Acoustic metamaterials with controllable bandgap gates based on magnetorheological elastomers. 2022 , 107829		0
8	Effect of Carbonyl Iron Particle Types on the Structure and Performance of Magnetorheological Elastomers: A Frequency and Strain Dependent Study. 2022 , 14, 4193		0
7	Effects of infill orientation and percentage on the magnetoactive properties of 3D printed magnetic elastomer structures. 2023 , 4, 100109		0
6	Voids induce wide-range modulation of elasticity for magnetic elastomers. 2022 , 18, 9242-9248		1
5	Bibliometric Review of Magnetorheological Materials. 2022 , 14, 15816		0
4	Determination of shear behavior of magneto-rheological elastomers under harmonic loading. 009524432211476		
3	Magnetically induced stiffening for soft robotics. 2023 , 19, 2623-2636		0
2	Magnetostriction Enhancement in Midrange Modulus Magnetorheological Elastomers for Sensor Applications. 2023 , 14, 767		0

1 Thixotropic Magnetorheological Fluid for Controlled Vibration Mounts. 1085, 125-130

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