List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Motion of ferroparticles inside the polymeric matrix in magnetoactive elastomers. Journal of Physics Condensed Matter, 2008, 20, 204121. | 1.8 | 139 |
| 2 | XμCT analysis of magnetic field-induced phase transitions in magnetorheological elastomers. Smart Materials and Structures, 2012, 21, 105018. | 3.5 | 102 |
| 3 | X-ray micro-tomographic characterization of field-structured magnetorheological elastomers. Smart Materials and Structures, 2012, 21, 015005. | 3.5 | 102 |
| 4 | Rheological characterisation and prediction of pumpability of strain-hardening cement-based-composites (SHCC) with and without addition of superabsorbent polymers (SAP) at various temperatures. Construction and Building Materials, 2016, 112, 581-594. | 7.2 | 70 |
| 5 | The level of cross-linking and the structure of anisotropic magnetorheological elastomers. Journal of Magnetism and Magnetic Materials, 2012, 324, 3452-3454. | 2.3 | 65 |
| 6 | A characterisation of the magnetically induced movement of NdFeB-particles in magnetorheological elastomers. Smart Materials and Structures, 2017, 26, 095018. | 3.5 | 59 |
| 7 | Modeling of magnetic hystereses in soft MREs filled with NdFeB particles. Smart Materials and Structures, 2017, 26, 105019. | 3.5 | 56 |
| 8 | Structural control of elastic moduli in ferrogels and the importance of non-affine deformations. Journal of Chemical Physics, 2014, 141, 124904. | 3.0 | 53 |
| 9 | First-order reversal curve analysis of magnetoactive elastomers. RSC Advances, 2016, 6, 100407-100416. | 3.6 | 51 |
| 10 | Tuning the tensile modulus of magnetorheological elastomers with magnetically hard powder. Journal of Physics: Conference Series, 2013, 412, 012040. | 0.4 | 50 |
| 11 | Dynamic response of a sensor element made of magnetic hybrid elastomer with controllable properties. Journal of Magnetism and Magnetic Materials, 2018, 449, 77-82. | 2.3 | 49 |
| 12 | Motion behaviour of magneto-sensitive elastomers controlled by an external magnetic field for sensor applications. Journal of Magnetism and Magnetic Materials, 2017, 431, 262-265. | 2.3 | 45 |
| 13 | Hysteresis of the magnetic properties of soft magnetic gels. Soft Matter, 2016, 12, 6473-6480. | 2.7 | 44 |
| 14 | Magnetoactive elastomer based on magnetically hard filler: Synthesis and study of viscoelastic and damping properties. Polymer Science - Series A, 2014, 56, 603-613. | 1.0 | 43 |
| 15 | Hybrid magnetoactive elastomer with a soft matrix and mixed powder. Archive of Applied Mechanics, 2019, 89, 105-117. | 2.2 | 43 |
| 16 | Magnetic properties of hybrid elastomers with magnetically hard fillers: rotation of particles. Smart Materials and Structures, 2017, 26, 035060. | 3.5 | 42 |
| 17 | Tunable dynamic response of magnetic gels: Impact of structural properties and magnetic fields. Physical Review E, 2014, 90, 042311. | 2.1 | 41 |
| 18 | Ferrofluid with clustered iron nanoparticles: Slow relaxation of rheological properties under joint action of shear flow and magnetic field. Journal of Magnetism and Magnetic Materials, 2011, 323, 1273-1277. | 2.3 | 39 |

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|----|---|-----|-----------|
| 19 | Application of X-ray radioscopic methods for characterization of two-phase phenomena and solidification processes in metallic melts. European Physical Journal: Special Topics, 2013, 220, 63-77. | 2.6 | 37 |
| 20 | Effect of particle concentration on ferrogel magnetodeformation. Journal of Magnetism and Magnetic Materials, 2015, 377, 373-377. | 2.3 | 36 |
| 21 | Rheology of a ferrofluid based on nanodisc cobalt particles. Journal Physics D: Applied Physics, 2009, 42, 205004. | 2.8 | 30 |
| 22 | Mechanical Properties of Magnetoâ€6ensitive Elastomers in a Homogeneous Magnetic Field: Theory and Experiment. Macromolecular Symposia, 2014, 338, 96-107. | 0.7 | 29 |
| 23 | Magnetorheological effect of magneto-active elastomers containing large particles. Journal of Physics: Conference Series, 2009, 149, 012098. | 0.4 | 25 |
| 24 | Magnetoviscous effect in ferrofluids with different dispersion media. Journal of Magnetism and Magnetic Materials, 2016, 416, 110-116. | 2.3 | 25 |
| 25 | On the oscillating shear rheometry of magnetorheological elastomers. Rheologica Acta, 2018, 57, 217-227. | 2.4 | 24 |
| 26 | Rotation of magnetic particles inside the polymer matrix of magnetoactive elastomers with a hard magnetic filler. Journal of Magnetism and Magnetic Materials, 2017, 431, 138-140. | 2.3 | 23 |
| 27 | Targeted patterning of magnetic microparticles in a polymer composite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190256. | 3.4 | 22 |
| 28 | Magnetic measurements on frozen ferrofluids as a method for estimating the magnetoviscous effect. Journal of Physics Condensed Matter, 2009, 21, 246002. | 1.8 | 21 |
| 29 | Stress induced by the striction of hybrid magnetoactive elastic composites. Journal of Magnetism and Magnetic Materials, 2019, 470, 85-88. | 2.3 | 21 |
| 30 | Basic magnetic properties of magnetoactive elastomers of mixed content. Smart Materials and Structures, 2020, 29, 075034. | 3.5 | 20 |
| 31 | Scale-dependent particle diffusivity and apparent viscosity in polymer solutions as probed by dynamic magnetic nanorheology. Soft Matter, 2020, 16, 7562-7575. | 2.7 | 18 |
| 32 | Hindrance of thermomagnetic convection by the magnetoviscous effect. International Journal of Heat and Mass Transfer, 2013, 60, 499-504. | 4.8 | 17 |
| 33 | A comparison between micro- and macro-structure of magnetoactive composites. Journal of Physics: Conference Series, 2013, 412, 012027. | 0.4 | 17 |
| 34 | Effect of local elasticity of the matrix on magnetization loops of hybrid magnetic elastomers. Journal of Magnetism and Magnetic Materials, 2018, 459, 92-97. | 2.3 | 17 |
| 35 | Modeling the magnetomechanical behavior of a multigrain magnetic particle in an elastic environment. Soft Matter, 2019, 15, 4947-4960. | 2.7 | 16 |
| 36 | Training effect in magnetoactive elastomers due to undermagnetization of magnetically hard filler. Physica B: Condensed Matter, 2020, 578, 411866. | 2.7 | 16 |

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|----|--|-----|-----------|
| 37 | Anisotropy of the magnetoviscous effect in ferrofluids containing nanoparticles exhibiting magnetic dipole interaction. Journal of Physics Condensed Matter, 2011, 23, 346002. | 1.8 | 15 |
| 38 | Stress relaxation in a ferrofluid with clustered nanoparticles. Journal of Physics Condensed Matter, 2014, 26, 406002. | 1.8 | 15 |
| 39 | Elastomer with magneto- and electrorheological properties. Journal of Intelligent Material Systems and Structures, 2015, 26, 1893-1898. | 2.5 | 15 |
| 40 | On anisotropic mechanical properties of heterogeneous magnetic polymeric composites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180212. | 3.4 | 15 |
| 41 | Magnetorheological Effect of Magnetoactive Elastomer with a Permalloy Filler. Polymers, 2020, 12, 2371. | 4.5 | 15 |
| 42 | Reversible and non-reversible motion of NdFeB-particles in magnetorheological elastomers. Journal of Intelligent Material Systems and Structures, 2021, 32, 3-15. | 2.5 | 15 |
| 43 | Thermomagnetic convection influenced by the magnetoviscous effect. Journal of Physics: Conference Series, 2009, 149, 012105. | 0.4 | 14 |
| 44 | Advancing Towards Polyurethaneâ€Based Magnetorheological Composites. Advanced Engineering Materials, 2014, 16, 1270-1275. | 3.5 | 14 |
| 45 | Shear Elasticity of Magnetic Gels with Internal Structures. Sensors, 2018, 18, 2054. | 3.8 | 14 |
| 46 | Non-ergodic tube structures in magnetic gels and suspensions. Soft Matter, 2018, 14, 8537-8544. | 2.7 | 13 |
| 47 | Hysteresis of ferrogels magnetostriction. Journal of Magnetism and Magnetic Materials, 2017, 431, 120-122. | 2.3 | 12 |
| 48 | RHEOLOGY OF NOVEL FERROFLUIDS. International Journal of Modern Physics B, 2011, 25, 963-969. | 2.0 | 10 |
| 49 | Shear elasticity of isotropic magnetic gels. Physical Review E, 2017, 96, 022605. | 2.1 | 10 |
| 50 | Negative coercivity of magnetic elastomers filled with magnetically hard particles. Journal of Magnetism and Magnetic Materials, 2020, 498, 166125. | 2.3 | 10 |
| 51 | Viscosity of liquid metal suspensions — experimental approaches and open issues. European Physical Journal: Special Topics, 2013, 220, 101-110. | 2.6 | 9 |
| 52 | Magnetoviscous effect in ferrofluids diluted with sheep blood. Journal of Magnetism and Magnetic Materials, 2017, 442, 383-390. | 2.3 | 9 |
| 53 | Characterization of a magnetic fluid exposed to a shear flow and external magnetic field using small angle laser scattering. Journal of Magnetism and Magnetic Materials, 2020, 497, 165959. | 2.3 | 9 |
| 54 | Influence of the size of magnetic filler particles on the properties of hybrid magnetic elastomer with magnetically hard filler. Journal of Magnetism and Magnetic Materials, 2020, 498, 166071. | 2.3 | 9 |

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|----|--|-----|-----------|
| 55 | Usage of magneto-active elastomers in a bumper of a vehicle for front impact protection. Journal of Physics: Conference Series, 2009, 149, 012089. | 0.4 | 8 |
| 56 | Magnetic field angle dependent hysteresis of a magnetorheological suspension. Journal of Magnetism and Magnetic Materials, 2017, 443, 275-280. | 2.3 | 8 |
| 57 | On the theory of hysteretic magnetostriction of soft ferrogels. Physica A: Statistical Mechanics and Its Applications, 2018, 498, 86-95. | 2.6 | 8 |
| 58 | Mesomagnetomechanics of hybrid elastomer composites: Magnetization of elastically trapped particles. Journal of Magnetism and Magnetic Materials, 2020, 499, 166249. | 2.3 | 8 |
| 59 | Transient response of magnetorheological fluid on rapid change of magnetic field in shear mode. Scientific Reports, 2022, 12, . | 3.3 | 8 |
| 60 | Magnetoviscosity of a Magnetic Fluid Based on Barium Hexaferrite Nanoplates. Materials, 2021, 14, 1870. | 2.9 | 7 |
| 61 | Ring-like structures in magnetoactive elastomers based on magnetic hard powder. Smart Materials and Structures, 2021, 30, 015023. | 3.5 | 7 |
| 62 | Hybrid magnetic elastomers prepared on the basis of a SIEL-grade resin and their magnetic and rheological properties. ChemistrySelect, 2020, . | 1.5 | 7 |
| 63 | Magneto-elastic coupling as a key to microstructural response of magnetic elastomers with flake-like particles. Soft Matter, 2022, 18, 496-506. | 2.7 | 7 |
| 64 | Mobility investigations of magnetic nanoparticles in biocomposites. Materials Chemistry and Physics, 2017, 193, 364-370. | 4.0 | 6 |
| 65 | The damping device based on magnetoactive elastomer. Magnetohydrodynamics, 2007, 43, 437-444. | 0.3 | 6 |
| 66 | Magnetoresistive and magnetocapacitive effects in magnetic elastomers. SN Applied Sciences, 2022, 4, . | 2.9 | 6 |
| 67 | Initial magnetic susceptibility of the diluted magnetopolymer elastic composites. Journal of Magnetism and Magnetic Materials, 2017, 431, 115-119. | 2.3 | 5 |
| 68 | Internal structures and elastic properties of dense magnetic fluids. Journal of Magnetism and Magnetic Materials, 2020, 498, 166129. | 2.3 | 5 |
| 69 | Magnetic Response of Magnetoactive Elastomers with Allowance for Slippage at the Particleâ€Matrix Interfaces. Advanced Theory and Simulations, 2021, 4, 2000327. | 2.8 | 5 |
| 70 | Magneto-mechanical properties of elastic hybrid composites. ChemistrySelect, 2022, 7, 1119-1140. | 1.5 | 5 |
| 71 | On the shear test of a MR elastomer under magnetic field applied at various angles. Smart Materials and Structures, 2022, 31, 025016. | 3.5 | 5 |
| 72 | Relaxation dynamics of the rheological properties of ferrofluids. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 519-520. | 0.2 | 4 |

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|----|--|-----|-----------|
| 73 | Magnetic Properties of Frozen Magneto-Active Elastomers. Solid State Phenomena, 0, 152-153, 190-193. | 0.3 | 4 |
| 74 | Synergistic effect in magnetoelectrorheological fluids with a complex dispersed phase. Journal of Intelligent Material Systems and Structures, 2012, 23, 963-967. | 2.5 | 3 |
| 75 | Surface influence on the stationary shear deformation of a magnetorheological fluid. European Physical Journal: Special Topics, 0, , 1. | 2.6 | 3 |
| 76 | Positioning magnetorheological actuator. Journal of Physics: Conference Series, 2009, 149, 012075. | 0.4 | 2 |
| 77 | Bio-nano composite for remote melting. , 2015, , . | | 2 |
| 78 | To the theory of elastic properties of isotropic magnetic gels. Effect of interparticle interaction. Smart Materials and Structures, 2017, 26, 095028. | 3.5 | 2 |
| 79 | Elastic stress in ferrogels with chain aggregates. Journal of Magnetism and Magnetic Materials, 2020, 498, 166126. | 2.3 | 2 |
| 80 | Internal structures and elastic properties of concentrated magnetorheological fluids. European Physical Journal: Special Topics, 2020, 229, 2967-2979. | 2.6 | 2 |
| 81 | Detection of the surface deformation of magneto-active composites using X-ray μ-tomography. Magnetohydrodynamics, 2013, 49, 494-498. | 0.3 | 2 |
| 82 | FORC analysis of magnetically soft microparticles embedded in a polymeric elastic environment. Journal Physics D: Applied Physics, 2022, 55, 155001. | 2.8 | 2 |
| 83 | Magnetorheological effect in dense magnetic polymers. European Physical Journal: Special Topics, 0, , 1. | 2.6 | 1 |
| 84 | Magnetization of magnetoactive elastomers under the assumption of breakable adhesion at the particle/matrix interface. Soft Matter, 2022, 18, 4667-4678. | 2.7 | 1 |
| 85 | Influence of magnetic field on the rheological properties of liquid GaInSn alloy. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10943-10944. | 0.2 | 0 |
| 86 | Electrorheological fluids and magnetorheological suspensions. Journal of Physics Condensed Matter, 2010, 22, 320301. | 1.8 | 0 |
| 87 | SYNERGISTIC EFFECT IN MAGNETOELECTRORHEOLOGICAL FLUIDS WITH A COMPLEX DISPERSED PHASE. , 2011, | | 0 |
| 88 | RHEOLOGY OF NOVEL FERROFLUIDS. , 2011, , . | | 0 |
| 89 | Elastic properties of ferrogels with chain-like structures. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123723. | 2.6 | 0 |
| 90 | Investigation magnetorheological elastomer elastic deformations under the influence of vibration and electromagnetic load. MATEC Web of Conferences, 2020, 329, 03037. | 0.2 | 0 |