# Karl A Kalina

List of Publications by Year
in descending order

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|---|---|---|---|
| **12** papers | **278** citations | 1478505 **6** h-index | 1372567 **10** g-index |
| **12** all docs | **12** docs citations | **12** times ranked | **153** citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | A numerical study on magnetostrictive phenomena in magnetorheological elastomers. Computational Materials Science, 2016, 124, 364-374. | 3.0 | 105 |
| 2 | Microscale modeling and simulation of magnetorheological elastomers at finite strains: A study on the influence of mechanical preloads. International Journal of Solids and Structures, 2016, 102-103, 286-296. | 2.7 | 55 |
| 3 | A macroscopic model for magnetorheological elastomers based on microscopic simulations. International Journal of Solids and Structures, 2020, 193-194, 200-212. | 2.7 | 33 |
| 4 | Reversible magnetomechanical collapse: virtual touching and detachment of rigid inclusions in a soft elastic matrix. Soft Matter, 2018, 14, 6809-6821. | 2.7 | 32 |
| 5 | Automated constitutive modeling of isotropic hyperelasticity based on artificial neural networks. Computational Mechanics, 2022, 69, 213-232. | 4.0 | 25 |
| 6 | Magneto-Mechanical Coupling in Magneto-Active Elastomers. Materials, 2021, 14, 434. | 2.9 | 16 |
| 7 | Multiscale modeling and simulation of magneto-active elastomers based on experimental data. ChemistrySelect, 2023, 8, 1-31. | 1.5 | 4 |
| 8 | Modeling and Simulation of Hysteresis Effects in Magnetorheological Elastomers. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800319. | 0.2 | 3 |
| 9 | Thermodynamically consistent constitutive modeling of isotropic hyperelasticity based on artificial neural networks. Proceedings in Applied Mathematics and Mechanics, 2021, 21, . | 0.2 | 3 |
| 10 | Development of a Macro-Model for Magnetorheological Elastomers based on Microscopic Simulations. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900288. | 0.2 | 2 |
| 11 | A macroscopic model for magneto-active elastomers based on microscopic simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000208. | 0.2 | 0 |
| 12 | Particle Interactions in Magneto-Active Elastomers: Experiments and Simulations. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000277. | 0.2 | 0 |