

Gareth J Monkman

List of Publications by Year in descending order

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75
papers

1,235
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516215

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395343

33
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all docs

79
docs citations

79
times ranked

1073
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Magnetically enhanced photoconductive high voltage control. <i>ISSS Journal of Micro and Smart Systems</i> , 2022, 11, 317-328. | 1.0 | 1 |
| 2 | Collision and separation of nickel particles embedded in a polydimethylsiloxan matrix under a rotating magnetic field: A strong magneto active function. <i>Colloid and Polymer Science</i> , 2021, 299, 955-967. | 1.0 | 1 |
| 3 | Alternative Approach to Optical Detection of Partial Discharges in Air. , 2021, , . | | 1 |
| 4 | Infrared spectral analysis of low concentration magnetoactive polymers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48366. | 1.3 | 1 |
| 5 | Self-Assembling structure formation in low-density magnetoactive polymers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48291. | 1.3 | 1 |
| 6 | Shape Memory Effects Using Magnetoactive Boron-Organosilicon Oxide Polymers. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000149. | 1.1 | 2 |
| 7 | An analysis of the electrical capacitance between two conducting spheres. <i>Journal of Electrostatics</i> , 2020, 108, 103518. | 1.0 | 0 |
| 8 | Field-induced interactions in magneto-active elastomers - A comparison of experiments and simulations. <i>Smart Materials and Structures</i> , 2020, 29, 085026. | 1.8 | 11 |
| 9 | Time-dependent electroadhesive force degradation. <i>Smart Materials and Structures</i> , 2020, 29, 055009. | 1.8 | 10 |
| 10 | Electrical Properties of Magnetoactive Boron-Organosilicon Oxide Polymers. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900342. | 1.1 | 3 |
| 11 | Dielectric behaviour of magnetic hybrid materials. <i>ChemistrySelect</i> , 2020, . | 0.7 | 0 |
| 12 | Detection of pulsed blood flow through a molar pulp chamber and surrounding tissue in vitro. <i>Clinical Oral Investigations</i> , 2019, 23, 1121-1132. | 1.4 | 3 |
| 13 | Bio-Inspired Shape-Adaptive Soft Robotic Grippers Augmented with Electroadhesion Functionality. <i>Soft Robotics</i> , 2019, 6, 701-712. | 4.6 | 49 |
| 14 | Mini-Extruder for 3D Magnetoactive Polymer Printing. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-8. | 1.0 | 10 |
| 15 | Structure formation in low concentration magnetoactive polymers. <i>AIP Advances</i> , 2019, 9, . | 0.6 | 3 |
| 16 | Printing of hybrid magneto active polymers with 6 degrees of freedom. <i>Materials Today Communications</i> , 2018, 15, 269-274. | 0.9 | 16 |
| 17 | Properties of Polydimethylsiloxane and Magnetoactive Polymers with Electroconductive Particles. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800222. | 1.1 | 8 |
| 18 | Controllable Magnetoactive Polymer Conduit. <i>The Open Mechanical Engineering Journal</i> , 2018, 12, 192-200. | 0.3 | 1 |

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|----|--|-----|-----------|
| 19 | Magnetorheological behavior of magnetoactive elastomers filled with bimodal iron and magnetite particles. <i>Smart Materials and Structures</i> , 2017, 26, 035019. | 1.8 | 20 |
| 20 | The magnetoactive electret. <i>Smart Materials and Structures</i> , 2017, 26, 075010. | 1.8 | 10 |
| 21 | Hysteresis of the viscoelastic properties and the normal force in magnetically and mechanically soft magnetoactive elastomers: Effects of filler composition, strain amplitude and magnetic field. <i>Polymer</i> , 2015, 76, 191-202. | 1.8 | 108 |
| 22 | In vitro optical detection of simulated blood pulse in a human tooth pulp model. <i>Clinical Oral Investigations</i> , 2014, 18, 1401-1409. | 1.4 | 5 |
| 23 | Experimental study of the magnetic field enhanced Payne effect in magnetorheological elastomers. <i>Soft Matter</i> , 2014, 10, 8765-8776. | 1.2 | 141 |
| 24 | Evaluation of highly compliant magnetoactive elastomers with colossal magnetorheological response. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 1.3 | 81 |
| 25 | Patterning of ultrasoft, agglutinative magnetorheological elastomers. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2508-2515. | 1.3 | 18 |
| 26 | Ultra-Soft PDMS-Based Magnetoactive Elastomers as Dynamic Cell Culture Substrata. <i>PLoS ONE</i> , 2013, 8, e76196. | 1.1 | 46 |
| 27 | Nonlinear Magnetolectric Response of Planar Ferromagnetic-Piezoelectric Structures to Sub-Millisecond Magnetic Pulses. <i>Sensors</i> , 2012, 12, 14821-14837. | 2.1 | 12 |
| 28 | Infrared spectroscopy for clinical diagnosis of dental pulp vitality. , 2012, , . | | 0 |
| 29 | Observation of nonlinear magnetolectric response to magnetic pulses in layered magnetostrictive-piezoelectric structures. , 2012, , . | | 2 |
| 30 | Spectroscopic Study of Human Teeth and Blood from Visible to Terahertz Frequencies for Clinical Diagnosis of Dental Pulp Vitality. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 366-375. | 1.2 | 12 |
| 31 | Optimisation of prehension force through tactile sensing. <i>Industrial Robot</i> , 2008, 35, 361-368. | 1.2 | 1 |
| 32 | Pre-slip detection based Tactile Sensing. , 2007, , . | | 2 |
| 33 | Contact Classification using Tactile Arrays. , 2007, , . | | 0 |
| 34 | Contact Identification using Tactile Arrays. , 2007, , . | | 3 |
| 35 | Electrorheological tactel elements. <i>Mechatronics</i> , 2005, 15, 883-897. | 2.0 | 23 |
| 36 | A NEW ER FLUID BASED HAPTIC ACTUATOR SYSTEM FOR VIRTUAL REALITY. <i>International Journal of Modern Physics B</i> , 2005, 19, 1628-1634. | 1.0 | 4 |

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|----|--|-----|-----------|
| 37 | Entwicklung eines haptischen Sensor-Aktor-Systems für Anwendungen in der virtuellen Realität. , 2005, , 237-241. | | 0 |
| 38 | Modelling the response of a tactile array using electrorheological fluids. Journal Physics D: Applied Physics, 2004, 37, 794-803. | 1.3 | 11 |
| 39 | Reduction of femoral shaft fractures in vitro by a new developed reduction robot system "RepoRobo"™. Injury, 2004, 35, 113-119. | 0.7 | 63 |
| 40 | Heavy duty robotic precision fracture repositioning. Industrial Robot, 2004, 31, 488-492. | 1.2 | 1 |
| 41 | A Haptic System for Virtual Reality Applications Based on Ultrasound Elastography and Electro-Rheological Fluids. Acoustical Imaging, 2004, , 667-674. | 0.2 | 1 |
| 42 | Electroadhesive microgrippers. Industrial Robot, 2003, 30, 326-330. | 1.2 | 53 |
| 43 | Technologies for haptic displays in teleoperation. Industrial Robot, 2003, 30, 525-530. | 1.2 | 5 |
| 44 | A New Haptic Sensor Actuator System for Virtual Reality Applications in Medicine. Lecture Notes in Computer Science, 2003, , 132-140. | 1.0 | 3 |
| 45 | Problems of scale. Assembly Automation, 2002, 22, 8-9. | 1.0 | 3 |
| 46 | Greater than the sum of its parts?. Sensor Review, 2002, 22, . | 1.0 | 0 |
| 47 | Temperature measurement taken to extremes. Sensor Review, 2001, 21, 177-182. | 1.0 | 2 |
| 48 | Workpiece retention during machine processing. Assembly Automation, 2001, 21, 61-67. | 1.0 | 5 |
| 49 | Old principles, new opportunities. Sensor Review, 2001, 21, . | 1.0 | 0 |
| 50 | Monomolecular Langmuir-Blodgett films " tomorrow"™s sensors?. Sensor Review, 2000, 20, 127-131. | 1.0 | 9 |
| 51 | Secure electronic tagging. Assembly Automation, 2000, 20, 24-27. | 1.0 | 1 |
| 52 | Advances in shape memory polymer actuation. Mechatronics, 2000, 10, 489-498. | 2.0 | 120 |
| 53 | Precise piezoelectric prehension. Industrial Robot, 2000, 27, 189-194. | 1.2 | 10 |
| 54 | The valve may be dead but it won't lie down. Sensor Review, 1999, 19, 6-8. | 1.0 | 0 |

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|----|---|-----|-----------|
| 55 | Advancements in infra-red array detectors. <i>Sensor Review</i> , 1999, 19, 273-277. | 1.0 | 4 |
| 56 | Micro-actuators: not so small any more. <i>Assembly Automation</i> , 1998, 18, 286-290. | 1.0 | 0 |
| 57 | Magnetic sensors. <i>Sensor Review</i> , 1998, 18, . | 1.0 | 1 |
| 58 | Exploitation of compressive stress in electrorheological coupling. <i>Mechatronics</i> , 1997, 7, 27-36. | 2.0 | 14 |
| 59 | Fast traffic at 28th ISATA. <i>Sensor Review</i> , 1996, 16, 26-28. | 1.0 | 1 |
| 60 | Sensory integrated fabric ply separation. <i>Robotica</i> , 1996, 14, 119-125. | 1.3 | 6 |
| 61 | Productronica -95: wafers and waste. <i>Assembly Automation</i> , 1996, 16, 31-35. | 1.0 | 0 |
| 62 | Micro actuation and memory alloys. <i>Assembly Automation</i> , 1996, 16, 22-25. | 1.0 | 1 |
| 63 | Bio-chemical sensors. <i>Sensor Review</i> , 1996, 16, 40-44. | 1.0 | 3 |
| 64 | A simple time domain web measurement and inspection system. <i>Measurement Science and Technology</i> , 1996, 7, 661-665. | 1.4 | 0 |
| 65 | Industrial infrared sensors. <i>Sensor Review</i> , 1996, 16, 22-25. | 1.0 | 2 |
| 66 | Munich: pH and SAW. <i>Sensor Review</i> , 1996, 16, 28-31. | 1.0 | 2 |
| 67 | Robot Grippers for Use With Fibrous Materials. <i>International Journal of Robotics Research</i> , 1995, 14, 144-151. | 5.8 | 50 |
| 68 | The electrorheological effect under compressive stress. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 588-593. | 1.3 | 49 |
| 69 | Sensing in Garment Assembly. , 1995, , 291-308. | | 5 |
| 70 | Controllable Shape Retention. <i>Journal of Intelligent Material Systems and Structures</i> , 1994, 5, 567-575. | 1.4 | 6 |
| 71 | Finland's industrial robotics. <i>Industrial Robot</i> , 1994, 21, 31-32. | 1.2 | 3 |
| 72 | Dielectrophoretic enhancement of electrorheological robotic actuators. <i>Mechatronics</i> , 1993, 3, 305-313. | 2.0 | 8 |

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|----|--|-----|-----------|
| 73 | Compliant robotic devices, and electroadhesion. <i>Robotica</i> , 1992, 10, 183-185. | 1.3 | 38 |
| 74 | An Electrorheological Tactile Display. <i>Presence: Teleoperators and Virtual Environments</i> , 1992, 1, 219-228. | 0.3 | 48 |
| 75 | Addition of solid structures to electrorheological fluids. <i>Journal of Rheology</i> , 1991, 35, 1385-1392. | 1.3 | 21 |