Seung Bok Choi

List of Publications by Year in Descending Order

694 papers	10,938 citations	48 h-index	68 g-index
771 ext. papers	12,864 ext. citations	2.5 avg, IF	6.89 L-index

#	Paper	IF	Citations
694	Effect of Time and Frequency of Magnetic Field Application on MRF Pressure Performance.. *Micromachines*, **2022**, 13,	3.3	1
693	Medical applications of magnetorheological fluids review **2022**, 485-500		
692	A Cylindrical Grip Type of Tactile Device Using Magneto-Responsive Materials Integrated with Surgical Robot Console: Design and Analysis.. *Sensors*, **2022**, 22,	3.8	2
691	A mathematical model of cavitation behaviour in a single-ended magnetorheological damper: experimental validation. *Smart Materials and Structures*, **2022**, 31, 035012	3.4	1
690	Applications of Magnetorheological Fluid Actuator to Multi-DOF Systems: State-of-the-Art from 2015 to 2021. *Actuators*, **2022**, 11, 44	2.4	4
689	Design and experimental evaluation a novel magneto-rheological brake with tooth shaped rotor. *Smart Materials and Structures*, **2022**, 31, 015015	3.4	
688	Design, Modeling, and Simulation of Low-Cost Magnetorheological Fluid-Based Prosthetic Leg. *Lecture Notes in Mechanical Engineering*, **2022**, 281-294	0.4	
687	A state-of-the-art on smart materials actuators over the last decade: control aspects for diverse applications. *Smart Materials and Structures*, **2022**, 31, 053001	3.4	2
686	Modeling and Performance Analysis of Linear Part Feeder System Actuated by Piezoelectric Transducers. *International Journal of Precision Engineering and Manufacturing*, **2022**, 23, 57-65	1.7	0
685	Field-Dependent Rheological Properties of Magnetorheological Elastomer with Fountain-Like Particle Chain Alignment.. *Micromachines*, **2022**, 13,	3.3	1
684	Design and Analysis of a Hybrid Annular Radial Magnetorheological Damper for Semi-Active In-Wheel-Motor Suspension. *Sensors*, **2022**, 22, 3689	3.8	0
683	Declining Performance of Silicone-Based Magnetorheological Elastomers after Accelerated Weathering. *Materials*, **2021**, 14,	3.5	1
682	Review of Magnetorheological Damping Systems on a Seismic Building. *Applied Sciences (Switzerland)*, **2021**, 11, 9339	2.6	4
681	Performance evaluation of a 3D haptic joystick featuring two bidirectional MR actuators and a linear MRB. *Smart Materials and Structures*, **2021**, 30, 017003	3.4	1
680	A new design of magnetic circuits in magnetorheological dampers for simple structure subjected to small stroke and low damping force. *Smart Materials and Structures*, **2021**, 30, 015036	3.4	3
679	A New Switching Adaptive Fuzzy Controller with an Application to Vibration Control of a Vehicle Seat Suspension Subjected to Disturbances. *Applied Sciences (Switzerland)*, **2021**, 11, 2244	2.6	4
678	Active dispersing mechanism for settled magnetorheological fluid featuring with rotary blades and inductive coils in twin-tube damper. *Smart Materials and Structures*, **2021**, 30, 067001	3.4	0

677	A New Tactile Transfer Cell Using Magnetorheological Materials for Robot-Assisted Minimally Invasive Surgery. *Sensors*, **2021**, 21,	3.8	4
676	Vibration control of gun recoil system with magneto-rheological damper associated with adaptive hybrid skyhook active force control. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2021**, 43, 1	2	0
675	Novel Approaches to the Design of an Ultra-Fast Magnetorheological Valve for Semi-Active Control. *Materials*, **2021**, 14,	3.5	5
674	The friction and wear mechanism of O-rings in magnetorheological damper: Numerical and experimental study. *Tribology International*, **2021**, 157, 106898	4.9	4
673	Model establishment of surface roughness and experimental investigation on magnetorheological finishing for polishing the internal surface of titanium alloy tubes. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 1278-1289	2.3	4
672	Response time of magnetorheological dampers to current inputs in a semi-active suspension system: Modeling, control and sensitivity analysis. *Mechanical Systems and Signal Processing*, **2021**, 146, 106999	7.8	36
671	Smart dampers-based vibration control – Part 2: Fractional-order sliding control for vehicle suspension system. *Mechanical Systems and Signal Processing*, **2021**, 148, 107145	7.8	15
670	Landing efficiency control of a six-degree-of-freedom aircraft model with magnetorheological dampers: Part 1 – Modeling. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 1323-1335	2.3	5
669	Landing efficiency control of a six degrees of freedom aircraft model with magneto-rheological dampers: Part 2 – control simulation. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 1290-1302	2.3	4
668	Accurate and fast estimation for field-dependent nonlinear damping force of meandering valve-based magnetorheological damper using extreme learning machine method. *Sensors and Actuators A: Physical*, **2021**, 318, 112479	3.9	7
667	Road traveling test for vibration control of a wheel loader cabin installed with magnetorheological mounts. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 1336-1348	2.3	3
666	Dynamic analysis of semi-active MR suspension system considering response time and damping force curve. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 1462-1472	2.3	3
665	The Effect of Microparticles on the Storage Modulus and Durability Behavior of Magnetorheological Elastomer. *Micromachines*, **2021**, 12,	3.3	2
664	A New Design Model of an MR Shock Absorber for Aircraft Landing Gear Systems Considering Major and Minor Pressure Losses: Experimental Validation. *Applied Sciences (Switzerland)*, **2021**, 11, 7895	2.6	4
663	The Effect of Spool Displacement Control to the Flow Rate in the Piezoelectric Stack-Based Valve System Subjected to High Operating Temperature. *Actuators*, **2021**, 10, 239	2.4	
662	A hybrid skyhook active force control for impact mitigation using magneto-rheological elastomer isolator. *Smart Materials and Structures*, **2021**, 30, 025043	3.4	2
661	Robust semiactive control of a half-car vehicle suspension system with magnetorheological dampers: Quantitative feedback theory approach with dynamic decoupler. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 1418-1435	3.6	5
660	Effects of corrosion rate of the magnetic particles on the field-dependent material characteristics of silicone based magnetorheological elastomers. *Smart Materials and Structures*, **2020**, 29, 087003	3.4	3

659	Smart dampers-based vibration control Part 1: Measurement data processing. *Mechanical Systems and Signal Processing*, **2020**, 145, 106958	7.8	6
658	Processing Online Massive Measuring Databases via Data-Uncertainty Quantifying Mechanism to Synthesize ANFIS. *International Journal of Fuzzy Systems*, **2020**, 22, 1679-1693	3.6	2
657	New control logic based on mechanical energy conservation for aircraft landing gear system with magnetorheological dampers. *Smart Materials and Structures*, **2020**, 29, 084003	3.4	10
656	Modal characteristics of a cantilever beam with the free-end immersed in a magnetorheological fluid. *Smart Materials and Structures*, **2020**, 29, 084001	3.4	0
655	Annular Surface Micromachining of Titanium Tubes Using a Magnetorheological Polishing Technique. *Micromachines*, **2020**, 11,	3.3	9
654	A Concentric Design of a Bypass Magnetorheological Fluid Damper with a Serpentine Flux Valve. *Actuators*, **2020**, 9, 16	2.4	16
653	A Tactile Device Generating Repulsive Forces of Various Human Tissues Fabricated from Magnetic-Responsive Fluid in Porous Polyurethane. *Materials*, **2020**, 13,	3.5	9
652	Design and experimental evaluation of a novel bidirectional magnetorheological actuator. *Smart Materials and Structures*, **2020**, 29, 117001	3.4	3
651	A new optimal sliding mode controller with adjustable gains based on Bolza-Meyer criterion for vibration control. *Journal of Sound and Vibration*, **2020**, 485, 115542	3.9	8
650	Field-Dependent Stiffness of a Soft Structure Fabricated from Magnetic-Responsive Materials: Magnetorheological Elastomer and Fluid. *Materials*, **2020**, 13,	3.5	8
649	Tunable low range Gr induced magnetorheological elastomer with magnetically conductive feedback. *Smart Materials and Structures*, **2020**, 29, 057001	3.4	3
648	Optimal Composition of ZnO/WO3 Composite Nanoparticle Gas Sensors. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900874	1.6	0
647	Particle-chain evolution and constitutive model of magnetorheological polishing fluids based on hexagonal close-packed structure. *Smart Materials and Structures*, **2020**, 29, 045012	3.4	6
646	Dynamic Analysis of Sphere-Like Iron Particles Based Magnetorheological Damper for Waveform-Generating Test System. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
645	A new magnetic-responsive hybrid soft composite with tunable equivalent tensile modulus: a proof-of-concept. *Smart Materials and Structures*, **2020**, 29, 077001	3.4	2
644	The effect of MnxCo(1-x)Fe2O4 with x = 0, 0.25 and 0.5 as nanoparticles additives in magnethorheological fluid. *Smart Materials and Structures*, **2020**, 29, 114004	3.4	1
643	Thermal Aging Rheological Behavior of Magnetorheological Elastomers Based on Silicone Rubber. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
642	Vibration Diagnosis of Sand Units in a Stone Crusher Plant: An On-Site Field Test. *Applied Sciences (Switzerland)*, **2020**, 10, 4327	2.6	0

641	Design of a Novel Magnetorheological Damper Adaptable to Low and High Stroke Velocity of Vehicle Suspension System. *Applied Sciences (Switzerland)*, **2020**, 10, 5586	2.6	9
640	Tunable Young's Moduli of Soft Composites Fabricated from Magnetorheological Materials Containing Microsized Iron Particles. *Materials*, **2020**, 13,	3.5	5
639	A fuzzy sliding mode control of anti-lock system featured by magnetorheological brakes: performance evaluation via the hardware-in-the-loop simulation. *Journal of Intelligent Material Systems and Structures*, **2020**, 1045389X2097443	2.3	1
638	Dynamic simulation of a full vehicle system featuring magnetorheological dampers with bypass holes. *Journal of Intelligent Material Systems and Structures*, **2020**, 31, 253-262	2.3	8
637	Effects of magnetic core parameters on landing stability and efficiency of magnetorheological damper-based landing gear system. *Journal of Intelligent Material Systems and Structures*, **2020**, 31, 198-208	2.3	13
636	Explicit model predictive control of semi-active suspension systems with magneto-rheological dampers subject to input constraints. *Journal of Intelligent Material Systems and Structures*, **2020**, 31, 1157-1170	2.3	16
635	Microstructure Simulation and Constitutive Modelling of Magnetorheological Fluids Based on the Hexagonal Close-packed Structure. *Materials*, **2020**, 13,	3.5	10
634	Enhancement of Particle Alignment Using Silicone Oil Plasticizer and Its Effects on the Field-Dependent Properties of Magnetorheological Elastomers. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	13
633	An effective energy harvesting in low frequency using a piezo-patch cantilever beam with tapered rectangular cavities. *Sensors and Actuators A: Physical*, **2019**, 297, 111522	3.9	8
632	The Repulsive Force Spectrum of Magnetorheological Fluids Based Tactile Devices Applicable to Robot Surgery. *Current Smart Materials*, **2019**, 4, 75-82	1	1
631	3D-Printed Soft Structure of Polyurethane and Magnetorheological Fluid: A Proof-of-Concept Investigation of its Stiffness Tunability. *Micromachines*, **2019**, 10,	3.3	7
630	An Electrohydrodynamic Jet Printing System With Metal Nanoparticle-Based Ink: Experimental Evaluation. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2019**, 9, 343-352	1.7	2
629	Material Characterizations of Gr-Based Magnetorheological Elastomer for Possible Sensor Applications: Rheological and Resistivity Properties. *Materials*, **2019**, 12,	3.5	32
628	A Robust Controller for Multivariable Model Matching System Utilizing a Quantitative Feedback Theory: Application to Magnetic Levitation. *Applied Sciences (Switzerland)*, **2019**, 9, 1753	2.6	1
627	Influence of the distribution of nanoparticles on the NO2 sensing properties of SnO2 nanorods decorated with CaO and Pt. *Journal of Alloys and Compounds*, **2019**, 802, 649-659	5.7	4
626	Vibration Controllability of Sandwich Structures with Smart Materials of Electrorheological Fluids and Magnetorheological Materials: A Review. *Journal of Vibration Engineering and Technologies*, **2019**, 7, 359-377	2	27
625	A New Scheduling Quantitative Feedback Theory-Based Controller Integrated with Fault Detection for Effective Vibration Control. *Shock and Vibration*, **2019**, 2019, 1-9	1.1	
624	Series Ni□i shape memory alloy wires with different martensitic austenitic phase transformation temperatures as an actuator for input shaping control. *Smart Materials and Structures*, **2019**, 28, 077001	3.4	4

623	A Review on the Development of Dampers Utilizing Smart Magnetorheological Fluids. *Current Smart Materials*, **2019**, 4, 15-21	1	6
622	Design, fabrication and testing of a magnetorheologic fluid braking system for machine tool application. *SN Applied Sciences*, **2019**, 1, 1	1.8	6
621	An eddy current effect on the response time of a magnetorheological damper: Analysis and experimental validation. *Mechanical Systems and Signal Processing*, **2019**, 127, 136-158	7.8	31
620	A robot-assisted cutting surgery of human-like tissues using a haptic master operated by magnetorheological clutches and brakes. *Smart Materials and Structures*, **2019**, 28, 065016	3.4	16
619	Swelling, Thermal, and Shear Properties of a Waste Tire Rubber Based Magnetorheological Elastomer. *Frontiers in Materials*, **2019**, 6,	4	8
618	The Effect of Particle Shapes on the Field-Dependent Rheological Properties of Magnetorheological Greases. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	6
617	Fine position control of a vehicle maintenance lift system using a hydraulic unit activated by magnetorheological valves. *Journal of Intelligent Material Systems and Structures*, **2019**, 30, 896-907	2.3	4
616	The field-dependent viscoelastic and transient responses of plate-like carbonyl iron particle based magnetorheological greases. *Journal of Intelligent Material Systems and Structures*, **2019**, 30, 788-797	2.3	10
615	Magnetorheological Fluid Based Devices Reported in 2013–2018: Mini-Review and Comment on Structural Configurations. *Frontiers in Materials*, **2019**, 6,	4	24
614	New hybrid optimal controller applied to a vibration control system subjected to severe disturbances. *Mechanical Systems and Signal Processing*, **2019**, 124, 408-423	7.8	9
613	Ride Quality Control of a Full Vehicle Suspension System Featuring Magnetorheological Dampers With Multiple Orifice Holes. *Frontiers in Materials*, **2019**, 6,	4	12
612	Synthesis and Characterization of Innovative Type Magneto-Rheological Fluid. *International Journal of Nanoscience*, **2019**, 18, 1850041	0.6	6
611	A novel semi-active control strategy based on the cascade quantitative feedback theory for a vehicle suspension system. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2019**, 233, 1851-1863	1.4	6
610	Control of Landing Efficiency of an Aircraft Landing Gear System With Magnetorheological Dampers. *Journal of Aircraft*, **2019**, 56, 1980-1986	1.6	26
609	Material Characterization of Magnetorheological Elastomers with Corroded Carbonyl Iron Particles: Morphological Images and Field-dependent Viscoelastic Properties. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
608	Selection of Materials Used in Viscous Clutch With ER Fluid Working in Special Conditions. *Frontiers in Materials*, **2019**, 6,	4	3
607	Non-sequential QFT Design Methodology for Disturbance Rejection Problem in Uncertain Multivariable Systems. *International Journal of Control, Automation and Systems*, **2019**, 17, 2183-2192	2.9	1
606	Characterization of morphological and rheological properties of rigid magnetorheological foams via in situ fabrication method. *Journal of Materials Science*, **2019**, 54, 13821-13833	4.3	12

605	A New Anti-Windup Compensator Based on Quantitative Feedback Theory for an Uncertain Linear System with Input Saturation. *Applied Sciences (Switzerland)*, **2019**, 9, 2958	2.6	3
604	Material Characterization of MR Fluid on Performance of MRF Based Brake. *Frontiers in Materials*, **2019**, 6,	4	6
603	Effects of micron-sized iron particles on friction and wear behaviors of seals used in a magnetorheological damper: analysis and experiment. *Smart Materials and Structures*, **2019**, 28, 095019	3.4	5
602	A quasi-static model for the pinch mode analysis of a magnetorheological fluid flow with an experimental validation. *Mechanical Systems and Signal Processing*, **2019**, 134, 106308	7.8	5
601	Design of a new magneto-rheological pressure seal for rotary shaft **2019**,		1
600	A sky-ground hook controller for efficiency enhancement of aircraft landing gear with MR damper **2019**,		2
599	Frictional Effect on Magnetorheological Fluid. *Advanced Science, Engineering and Medicine*, **2019**, 11, 367-374	0.6	2
598	Design of Sky-ground Hook Controller for MR Damper of Aircraft Landing Gear. *Transactions of the Korean Society for Noise and Vibration Engineering*, **2019**, 29, 222-229	0.3	2
597	The field-dependent rheological properties of plate-like carbonyl iron particle-based magnetorheological elastomers. *Results in Physics*, **2019**, 12, 2146-2154	3.7	20
596	Experimental Performance Evaluation of a MR Brake-Based Haptic System for Teleoperation. *Frontiers in Materials*, **2019**, 6,	4	9
595	Dynamic characteristics of passive and semi-active cabin mounts for vibration control of a wheel loader. *International Journal of Heavy Vehicle Systems*, **2019**, 26, 239	0.5	4
594	Enhancement of Viscoelastic and Electrical Properties of Magnetorheological Elastomers with Nanosized Ni-Mg Cobalt-Ferrites as Fillers. *Materials*, **2019**, 12,	3.5	6
593	A Novel Adaptive Gain of Optimal Sliding Mode Controller for Linear Time-Varying Systems. *Applied Sciences (Switzerland)*, **2019**, 9, 5050	2.6	4
592	The Synthesis of Organic Oils Blended Magnetorheological Fluids with the Field-Dependent Material Characterization. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
591	A New Adaptive Fuzzy PID Controller Based on Riccati-Like Equation with Application to Vibration Control of Vehicle Seat Suspension. *Applied Sciences (Switzerland)*, **2019**, 9, 4540	2.6	16
590	A study of the magnetic fatigue properties of a magnetorheological elastomer. *Journal of Intelligent Material Systems and Structures*, **2019**, 30, 749-754	2.3	5
589	Role of Additives in Enhancing the Rheological Properties of Magnetorheological Solids: A Review. *Advanced Engineering Materials*, **2019**, 21, 1800696	3.5	15
588	On the response time of a new permanent magnet based magnetorheological damper: experimental investigation. *Smart Materials and Structures*, **2019**, 28, 014001	3.4	16

587	A new platform for the prediction of field-dependent yield stress and plastic viscosity of magnetorheological fluids using particle swarm optimization. *Applied Soft Computing Journal*, **2019**, 76, 615-628	7.5	12
586	Robust position control and disturbance rejection of an industrial plant emulator system using the feedforward-feedback control. *Mechatronics*, **2019**, 57, 29-38	3	9
585	An electromechanical model of an electro-responsive liquid droplet actuator for microsystems: Modeling and verification. *Sensors and Actuators A: Physical*, **2019**, 285, 338-347	3.9	1
584	Thermal and tribological characteristics of a disc-type magnetorheological brake operated by the shear mode. *Journal of Intelligent Material Systems and Structures*, **2019**, 30, 722-733	2.3	18
583	An experimental study on torque characteristics of magnetorheological brake with modified magnetic core shape. *Advances in Mechanical Engineering*, **2018**, 10, 168781401775222	1.2	14
582	A new composite adaptive controller featuring the neural network and prescribed sliding surface with application to vibration control. *Mechanical Systems and Signal Processing*, **2018**, 107, 409-428	7.8	29
581	Implementation of functionalized multiwall carbon nanotubes on magnetorheological elastomer. *Journal of Materials Science*, **2018**, 53, 10122-10134	4.3	29
580	A state of art on magneto-rheological materials and their potential applications. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 2051-2095	2.3	119
579	Lateral vibration control of a precise machine using magneto-rheological mounts featuring multiple directional damping effect. *Smart Materials and Structures*, **2018**, 27, 037001	3.4	2
578	A new fuzzy-disturbance observer-enhanced sliding controller for vibration control of a train-car suspension with magneto-rheological dampers. *Mechanical Systems and Signal Processing*, **2018**, 105, 447-466	7.8	37
577	A new approach to hysteresis modelling for a piezoelectric actuator using Preisach model and recursive method with an application to open-loop position tracking control. *Sensors and Actuators A: Physical*, **2018**, 270, 136-152	3.9	39
576	Constitutive models of magnetorheological fluids having temperature-dependent prediction parameter. *Smart Materials and Structures*, **2018**, 27, 095001	3.4	35
575	Selective Detection of a Reducing Gas Using WO3-Decorated ZnO Nanorod-Based Sensor in the Presence of Oxidizing Gases. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700929	1.6	4
574	Particle interaction energy and hysteresis in polar and non-polar medium based magnetic fluids. *Journal of Industrial and Engineering Chemistry*, **2018**, 63, 133-138	6.3	1
573	Effects of annealing temperature on the H2-sensing properties of Pd-decorated WO3 nanorods. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	4
572	Control of a shimmy vibration in vehicle steering system using a magneto-rheological damper. *JVC/Journal of Vibration and Control*, **2018**, 24, 797-807	2	12
571	Recurrent Mechanism and Impulse Noise Filter for Establishing ANFIS. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 985-997	8.3	25
570	Cr 2 O 3 nanoparticle-functionalized WO 3 nanorods for ethanol gas sensors. *Applied Surface Science*, **2018**, 432, 241-249	6.7	77

569	Comparative Study on Wear Characteristics between Flow Mode and Shear Mode Magnetorheological Dampers. *Tribology Transactions*, **2018**, 61, 459-473	1.8	4
568	Shock mitigation of pedestrians from sports utility vehicles impact using active pop-up and extended hood mechanisms: experimental work. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2018**, 232, 1573-1583	1.4	1
567	A comparative work on the magnetic field-dependent properties of plate-like and spherical iron particle-based magnetorheological grease. *PLoS ONE*, **2018**, 13, e0191795	3.7	19
566	Material Characterization of Hardening Soft Sponge Featuring MR Fluid and Application of 6-DOF MR Haptic Master for Robot-Assisted Surgery. *Materials*, **2018**, 11,	3.5	11
565	A novel semi-active control strategy based on the quantitative feedback theory for a vehicle suspension system with magneto-rheological damper saturation. *Mechatronics*, **2018**, 54, 36-51	3	19
564	Identification of Operating Parameters Most Strongly Influencing the Jetting Performance in a Piezoelectric Actuator-Driven Dispenser. *Applied Sciences (Switzerland)*, **2018**, 8, 243	2.6	5
563	Meet Our Editor-in-Chief. *Current Smart Materials*, **2018**, 3, 1-1	1	
562	A controllable tactile device for human-like tissue realization using smart magneto-rheological fluids: fabrication and modeling. *Smart Materials and Structures*, **2018**, 27, 065015	3.4	6
561	Design of new prosthetic leg damper for above knee amputees using a magnetorheological damper activated permanent magnet only **2018**,		1
560	Design of MR cabin mount for heavy duty vehicles subjected to severe vibrations **2018**,		2
559	Effect of Curing Current on Stiffness and Damping Properties of Magnetorheological Elastomers. *International Journal of Sustainable Transportation Technology*, **2018**, 1, 51-58	0.5	2
558	Volatile organic compound sensing properties of MoO 3 ZnO core shell nanorods. *Current Applied Physics*, **2018**, 18, S60-S67	2.6	14
557	Design and damping force characterization of a new magnetorheological damper activated by permanent magnet flux dispersion. *Smart Materials and Structures*, **2018**, 27, 015013	3.4	16
556	Critical operating factors of a jetting dispenser driven by piezostack actuators: statistical analysis of experimental results. *Journal of Adhesion Science and Technology*, **2018**, 32, 359-374	2	3
555	Enhanced NO2 gas-sensing performance of Pd/ZnO-codecorated SnO2 nanorod sensors. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	7
554	Material Characterization of a Magnetorheological Fluid Subjected to Long-Term Operation in Damper. *Materials*, **2018**, 11,	3.5	25
553	A State-of-the-Art Review on Robots and Medical Devices Using Smart Fluids and Shape Memory Alloys. *Applied Sciences (Switzerland)*, **2018**, 8, 1928	2.6	25
552	Optimization of the Pt Nanoparticle Size and Calcination Temperature for Enhanced Sensing Performance of Pt-Decorated In2O3 Nanorods. *Journal of the Korean Physical Society*, **2018**, 73, 1444-1451	0.6	5

551	Braking control performances of a disk-type magneto-rheological brake via hardware-in-the-loop simulation. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 3937-3948	2.3	4
550	A Piezoelectric Actuator-Based Direct-Drive Valve for Fast Motion Control at High Operating Temperatures. *Applied Sciences (Switzerland)*, **2018**, 8, 1806	2.6	7
549	A Novel Piezoelectric Energy Harvester Using a Multi-Stepped Beam with Rectangular Cavities. *Applied Sciences (Switzerland)*, **2018**, 8, 2091	2.6	12
548	Design of a New Magnetorheological Damper Based on Passive Oleo-Pneumatic Landing Gear. *Journal of Aircraft*, **2018**, 55, 2510-2520	1.6	23
547	A new hybrid mount actuator consisting of air spring and magneto-rheological damper for vibration control of a heavy precision stage. *Sensors and Actuators A: Physical*, **2018**, 284, 42-51	3.9	6
546	Design and control of a parallel mechanism haptic master for robot surgery using magneto-rheological clutches and brakes. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 3829-3844	2.3	6
545	A new constitutive model of a magneto-rheological fluid actuator using an extreme learning machine method. *Sensors and Actuators A: Physical*, **2018**, 281, 209-221	3.9	19
544	A comparative assessment of different dispersing aids in enhancing magnetorheological elastomer properties. *Smart Materials and Structures*, **2018**, 27, 117002	3.4	13
543	Two-Dimensional rGO-MoS Hybrid Additives for High-Performance Magnetorheological Fluid. *Scientific Reports*, **2018**, 8, 12672	4.9	10
542	Design of a novel 6-DOF haptic master mechanism using MR clutches and gravity compensator. *Mechanics Based Design of Structures and Machines*, **2018**, 46, 767-780	1.7	6
541	Improvement of magnetorheological greases with superparamagnetic nanoparticles. *MATEC Web of Conferences*, **2018**, 159, 02066	0.3	4
540	A fuzzy-based dynamic inversion controller with application to vibration control of vehicle suspension system subjected to uncertainties. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2018**, 232, 1103-1119	1	6
539	An Approach for Hysteresis Modeling Based on Shape Function and Memory Mechanism. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 1270-1278	5.5	33
538	Design and Analysis of a New Magnetorheological Damper for Generation of Tunable Shock-Wave Profiles. *Shock and Vibration*, **2018**, 2018, 1-11	1.1	4
537	Controllable magnetorheological fluid based actuators for 6-degree-of-freedom haptic master applicable to robot-assisted surgery. *Sensors and Actuators A: Physical*, **2018**, 279, 649-662	3.9	13
536	A new congruency-based hysteresis modeling and compensating of a piezoactuator incorporating an adaptive neuron fuzzy inference system. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2017**, 231, 1712-1724	1.3	1
535	Design of multi-degree motion haptic mechanisms using smart fluid-based devices. *Mechanics Based Design of Structures and Machines*, **2017**, 45, 135-144	1.7	10
534	A new adaptive hybrid controller for vibration control of a vehicle seat suspension featuring MR damper. *JVC/Journal of Vibration and Control*, **2017**, 23, 3392-3413	2	24

533	A ride quality evaluation of a semi-active railway vehicle suspension system with MR damper: Railway field tests. *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*, **2017**, 231, 306-316	1.4	24
532	A new measurement method for operation mode dependent dynamic behavior of magnetorheological fluid. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2017**, 231, 3358-3369	1.3	3
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