

Kok-Meng Lee

List of Publications by Year in descending order

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181
papers

3,229
citations

172207

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185
all docs

185
docs citations

185
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical and experimental investigation on the magnetic field and torque of a permanent magnet spherical actuator. IEEE/ASME Transactions on Mechatronics, 2006, 11, 409-419.	3.7	145
2	Design and Analysis of a Permanent Magnet Spherical Actuator. IEEE/ASME Transactions on Mechatronics, 2008, 13, 239-248.	3.7	133
3	Open-Loop Controller Design and Dynamic Characteristics of a Spherical Wheel Motor. IEEE Transactions on Industrial Electronics, 2010, 57, 3475-3482.	5.2	107
4	Distributed Multipole Model for Design of Permanent-Magnet-Based Actuators. IEEE Transactions on Magnetics, 2007, 43, 3904-3913.	1.2	101
5	A Real-Time Optical Sensor for Simultaneous Measurement of Three-DOF Motions. IEEE/ASME Transactions on Mechatronics, 2004, 9, 499-507.	3.7	91
6	Development of a novel intelligent robotic manipulator. Control Systems Magazine, 1987, 7, 9-15.	0.1	82
7	Distributed Multipole Models for Design and Control of PM Actuators and Sensors. IEEE/ASME Transactions on Mechatronics, 2008, 13, 228-238.	3.7	79
8	Kinematic and dynamic analysis of an anatomically based knee joint. Journal of Biomechanics, 2010, 43, 1231-1236.	0.9	77
9	Adaptive Knee Joint Exoskeleton Based on Biological Geometries. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1268-1278.	3.7	77
10	Dynamic Modeling and Control of a Ball-Joint-Like Variable-Reluctance Spherical Motor. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1996, 118, 29-40.	0.9	73
11	Hydrodynamics of an Undulating Fin for a Wave-Like Locomotion System Design. IEEE/ASME Transactions on Mechatronics, 2012, 17, 554-562.	3.7	66
12	Direct Field-Feedback Control of a Ball-Joint-Like Permanent-Magnet Spherical Motor. IEEE/ASME Transactions on Mechatronics, 2014, 19, 975-986.	3.7	66
13	Effects of the torque model on the control of a VR spherical motor. Control Engineering Practice, 2004, 12, 1437-1449.	3.2	65
14	Wireless Mobile Sensor Network for the System Identification of a Space Frame Bridge. IEEE/ASME Transactions on Mechatronics, 2012, 17, 499-507.	3.7	65
15	Temperature field sensing of a thin-wall component during machining: Numerical and experimental investigations. International Journal of Heat and Mass Transfer, 2018, 126, 935-945.	2.5	63
16	Dipole Models for Forward/Inverse Torque Computation of a Spherical Motor. IEEE/ASME Transactions on Mechatronics, 2009, 14, 46-54.	3.7	62
17	High-Acceleration Precision Point-to-Point Motion Control With Look-Ahead Properties. IEEE Transactions on Industrial Electronics, 2011, 58, 4343-4352.	5.2	57
18	Design and Development of a Spherical Motor for Conformal Printing of Curved Electronics. IEEE Transactions on Industrial Electronics, 2018, 65, 9190-9200.	5.2	49

#	ARTICLE	IF	CITATIONS
19	Generalized Shooting Method for Analyzing Compliant Mechanisms With Curved Members. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 765-775.	1.7	46
20	A Passive Gait-Based Weight-Support Lower Extremity Exoskeleton With Compliant Joints. IEEE Transactions on Robotics, 2016, 32, 933-942.	7.3	45
21	Electromechanical Modeling of a Permanent-Magnet Spherical Actuator Based on Magnetic-Dipole-Moment Principle. IEEE Transactions on Industrial Electronics, 2009, 56, 1640-1648.	5.2	39
22	Harnessing Embedded Magnetic Fields for Angular Sensing With Nanodegree Accuracy. IEEE/ASME Transactions on Mechatronics, 2012, 17, 687-696.	3.7	39
23	Modeling and Iron-Effect Analysis on Magnetic Field and Torque Output of Electromagnetic Spherical Actuators With Iron Stator. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1080-1087.	3.7	38
24	Dynamic Modeling of Damping Effects in Highly Damped Compliant Fingers for Applications Involving Contacts. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	36
25	Large-Deformation Analysis and Experimental Validation of a Flexure-Based Mobile Sensor Node. IEEE/ASME Transactions on Mechatronics, 2012, 17, 606-616.	3.7	36
26	Two-DOF magnetic orientation sensor using distributed multipole models for spherical wheel motor. Mechatronics, 2011, 21, 156-165.	2.0	35
27	Design analysis of a passive weight-support lower-extremity-exoskeleton with compliant knee-joint. , 2015, , .		32
28	Concept Development and Design of a Spherical Wheel Motor (SWM). , 2005, , .		31
29	Control system design and input shape for orientation of spherical wheel motor. Control Engineering Practice, 2014, 24, 120-128.	3.2	31
30	Distributed Multilevel Current Models for Design Analysis of Electromagnetic Actuators. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2413-2424.	3.7	31
31	A magnetic flux model based method for detecting multi-DOF motion of a permanent magnet spherical motor. Mechatronics, 2016, 39, 217-225.	2.0	31
32	Thermal deflection and thermal stresses in a thin circular plate under an axisymmetric heat source. Journal of Thermal Stresses, 2019, 42, 361-373.	1.1	31
33	Design and analysis of an absolute non-contact orientation sensor for wrist motion control. , 0, , .		30
34	Explicit dynamic finite element analysis of an automated grasping process using highly damped compliant fingers. Computers and Mathematics With Applications, 2012, 64, 965-977.	1.4	29
35	A Novel Cascade Temperature Control System for a High-Speed Heat-Airflow Wind Tunnel. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1310-1319.	3.7	28
36	Effects of Classification Methods on Color-Based Feature Detection With Food Processing Applications. IEEE Transactions on Automation Science and Engineering, 2007, 4, 40-51.	3.4	27

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37	Thermohydraulic Dynamics and Fuzzy Coordination Control of a Microchannel Cooling Network for Space Electronics. IEEE Transactions on Industrial Electronics, 2011, 58, 700-708.	5.2	27
38	Compliant joint design and flexure finger dynamic analysis using an equivalent pin model. Mechanism and Machine Theory, 2013, 70, 338-353.	2.7	27
39	An adaptive meshless method for magnetic field computation. IEEE Transactions on Magnetics, 2006, 42, 1996-2003.	1.2	26
40	A Modal Expansion Method for Displacement and Strain Field Reconstruction of a Thin-Wall Component During Machining. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1028-1037.	3.7	26
41	Design criteria for developing an automated live-bird transfer system. IEEE Transactions on Automation Science and Engineering, 2001, 17, 483-490.	2.4	25
42	Multiparameter Eddy-Current Sensor Design for Conductivity Estimation and Simultaneous Distance and Thickness Measurements. IEEE Transactions on Industrial Informatics, 2019, 15, 1647-1657.	7.2	25
43	Hybrid torque modeling of spherical actuators with cylindrical-shaped magnet poles. Mechatronics, 2011, 21, 85-91.	2.0	24
44	A two-mode six-DOF motion system based on a ball-joint-like spherical motor for haptic applications. Computers and Mathematics With Applications, 2012, 64, 978-987.	1.4	24
45	Cantilever Snap-Fit Performance Analysis for Haptic Evaluation. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	23
46	Inverse Models and Harmonics Compensation for Suppressing Torque Ripples of Multiphase Permanent Magnet Motor. IEEE Transactions on Industrial Electronics, 2018, 65, 8730-8739.	5.2	23
47	Modeling and supervisory control of a disassembly automation workcell based on blocking topology. IEEE Transactions on Automation Science and Engineering, 2000, 16, 67-77.	2.4	22
48	Magnetic Tensor Sensor for Gradient-Based Localization of Ferrous Object in Geomagnetic Field. IEEE Transactions on Magnetics, 2016, 52, 1-10.	1.2	22
49	Analysis and Control of Equivalent Physical Simulator for Nanosatellite Space Radiator. IEEE/ASME Transactions on Mechatronics, 2010, 15, 79-87.	3.7	21
50	Flexible Capacitive Curvature Sensor with One-Time Calibration for Amphibious Gait Monitoring. Soft Robotics, 2021, 8, 164-174.	4.6	21
51	Finite element torque modeling for the design of a spherical motor. , 0, , .		20
52	An Online Tool Temperature Monitoring Method Based on Physics-Guided Infrared Image Features and Artificial Neural Network for Dry Cutting. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1665-1676.	3.4	20
53	A Backpack Minimizing the Vertical Acceleration of the Load Improves the Economy of Human Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1994-2004.	2.7	20
54	Torque Modeling of a Spherical Actuator Based on Lorentz Force Law. , 0, , .		19

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55	Design Criteria Based on Modal Analysis for Vibration Sensing of Thin-Wall Plate Machining. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1406-1417.	3.7	19
56	Free Surface Flow in High Speed Fiber Drawing With Large-Diameter Glass Preforms. Journal of Heat Transfer, 2004, 126, 713-722.	1.2	18
57	An Analytical Contact Model for Design of Compliant Fingers. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	18
58	A Method Based on Measured Boundary Conditions for Reconstructing the Magnetic Field Distribution of an Electromagnetic Mechatronic System. IEEE/ASME Transactions on Mechatronics, 2010, 15, 595-602.	3.7	18
59	Distributed Current Source Method for Modeling Magnetic and Eddy-Current Fields Induced in Nonferrous Metallic Objects. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1038-1049.	3.7	18
60	An Active Control Method for Chatter Suppression in Thin Plate Turning. IEEE Transactions on Industrial Informatics, 2020, 16, 1742-1753.	7.2	18
61	Design criteria for developing an automated live-bird transfer system. , 0, , .		17
62	Torque Modeling of Spherical Actuators with Double-layer Poles. , 2006, , .		16
63	An improved material constitutive model considering temperature-dependent dynamic recrystallization for numerical analysis of Ti-6Al-4V alloy machining. International Journal of Advanced Manufacturing Technology, 2018, 97, 3655-3670.	1.5	15
64	Spherical Wrist With Hybrid Motion-Impedance Control for Enhanced Robotic Manipulations. IEEE Transactions on Robotics, 2022, 38, 1174-1185.	7.3	15
65	Design of air bearing system for fine motion application of multi-DOF spherical actuators. , 1999, , .		14
66	An Adaptive Meshless Method for Analyzing Large Mechanical Deformation and Contacts. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	14
67	Real-time motion control of a multi-degree-of-freedom variable reluctance spherical motor. , 0, , .		13
68	Effects of fixture dynamics on back-stepping control of a VR spherical motor. , 0, , .		13
69	Hydrodynamic modeling of an undulating fin for robotic fish design. , 2010, , .		13
70	Analytical Magnetic Field and Driving Force Models Based on Measured Boundary Conditions for Industrial Coriolis Mass Flowmeters. IEEE Transactions on Industrial Electronics, 2012, 59, 4753-4760.	5.2	13
71	Distributed current source modeling method for 3D eddy current problem in magnetic conductor with discrete state-space J-Ĥ formulation. Journal of Computational Physics, 2020, 401, 109027.	1.9	13
72	A Novel Pantographic Exoskeleton Based Collocated Joint Design With Application for Early Stroke Rehabilitation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1922-1932.	3.7	13

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73	Design and control of a spherical air-bearing system for multi-d.o.f. ball-joint-like actuators. <i>Mechatronics</i> , 2003, 13, 175-194.	2.0	12
74	Computational thermal fluid models for design of a modern fiber draw process. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006, 3, 108-118.	3.4	12
75	Dynamic Modeling and Transient Performance Analysis of a LHP-MEMS Thermal Management System for Spacecraft Electronics. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2010, 33, 597-606.	1.4	12
76	A walking monitoring shoe system for simultaneous plantar-force measurement and gait-phase detection. , 2010, , .		12
77	Magnetic Tensor Sensor and Way-Finding Method Based on Geomagnetic Field Effects With Applications for Visually Impaired Users. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 2694-2704.	3.7	12
78	Design of flexonic mobile node using 3D compliant beam for smooth manipulation and structural obstacle avoidance. , 2014, , .		11
79	Review of anatomy-based ankleâ€‘foot robotics for mind, motor and motion recovery following stroke: design considerations and needs. <i>International Journal of Intelligent Robotics and Applications</i> , 2018, 2, 267-282.	1.6	11
80	A Hybrid Method Based on Macroâ€‘Micro Modeling and Infrared Imaging for Tool Temperature Reconstruction in Dry Turning. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 1019-1027.	3.7	11
81	A real-time optical sensor for simultaneous measurement of 3-DOF motions. , 0, , .		10
82	Modeling by numerical reduction of modes for multivariable control of an optical-fiber draw process. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006, 3, 119-130.	3.4	10
83	Digital Image Correlation Based on Primary Shear Band Model for Reconstructing Displacement, Strain, and Stress Fields in Orthogonal Cutting. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2088-2099.	3.7	10
84	A machine-vision-based wrist sensor for direct measurement of three degrees-of-freedom orientation. <i>Mechatronics</i> , 1993, 3, 571-587.	2.0	9
85	On the development of a compliant grasping mechanism for online handling of live objects. I. Analytical model. , 1999, , .		9
86	Model-based fuzzy adaptation for control of a lower extremity rehabilitation exoskeleton. , 2009, , .		9
87	Flux Field Formulation and Back-Iron Analysis of Tubular Linear Machines. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 2617-2626.	1.2	9
88	Robust control of a spherical motor in moving frame. <i>Mechatronics</i> , 2021, 75, 102548.	2.0	9
89	Regulation and Tracking Control of Omnidirectional Rotation for Spherical Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 1696-1705.	5.2	9
90	Cutting, 'by pressing and slicing', applied to the robotic cut of bio-materials. II. Force during slicing and pressing cuts. , 0, , .		8

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91	Magnetic field-based multi-DOF orientation sensor for PM-based spherical actuators. , 2009, , .		8
92	Design of multi-DOF electromagnetic actuators using distributed multipole models and image method. International Journal of Applied Electromagnetics and Mechanics, 2010, 34, 195-210.	0.3	8
93	An adaptive knee joint exoskeleton based on biological geometries. , 2011, , .		8
94	Direct field-feedback control for multi-DOF spherical actuators. , 2011, , .		8
95	Multi-motion robots control based on bioelectric signals from single-channel dry electrode. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 124-136.	1.0	8
96	Harmonic Model and Remedy Strategy of Multiphase PM Motor Under Open-Circuit Fault. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1407-1419.	3.7	8
97	Machine Perception Based on Eddy Current for Physical Field Reconstruction of Conductivity and Hidden Geometrical Features. IEEE Transactions on Industrial Informatics, 2019, 15, 5392-5403.	7.2	8
98	A spherical encoder for real-time measurements of three-DOF wrist orientations. , 0, , .		7
99	Coupled Parametric Effects on Magnetic Fields of Eddy-Current Induced in Non-Ferrous Metal Plate for Simultaneous Estimation of Geometrical Parameters and Electrical Conductivity. IEEE Transactions on Magnetics, 2017, 53, 1-9.	1.2	7
100	Design and Decoupled Compensation Methods of a PM Motor Capable of 6-D Force/Torque Actuation for Minimum Bearing Reaction. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2252-2264.	3.7	7
101	Model-Based Digital Image Correlation for Noncontact Deformation Measurement of Strain Field and Mechanical Property. IEEE Transactions on Industrial Informatics, 2019, 15, 5109-5118.	7.2	7
102	Articular Geometry Reconstruction for Knee Joint with a Wearable Compliant Device. Robotica, 2019, 37, 2104-2118.	1.3	7
103	Design and chatter prediction analysis of a duplex face turning machine for manufacturing disk-like workpieces. International Journal of Machine Tools and Manufacture, 2019, 140, 12-19.	6.2	7
104	Design analysis of a grating interferometer sensor for HDD servo-track writing. , 1999, , .		6
105	Empirical formulation of torque output for spherical actuators with low-cost rotor poles. , 2009, , .		6
106	Explicit finite element analysis of a flexible multibody dynamic system with highly damped compliant fingers. , 2010, , .		6
107	A Dual-driven Intelligent Combination Control of Heat Pipe Space Cooling System. Chinese Journal of Aeronautics, 2012, 25, 566-574.	2.8	6
108	A numerical and experimental investigation of parametric effect on flow ripple. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2939-2951.	1.1	6

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109	Attenuating characteristics of a multi-element buffer bottle in an aircraft piston pump. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 1791-1803.	1.1	6
110	Modeling of the natural product deboning process using biological and human models. , 1999, , .		5
111	Effects of Nonlinear Micromagnetic Coupling on a Weak-Field Magnetoimpedance Sensor. IEEE Transactions on Magnetics, 2008, 44, 2042-2048.	1.2	5
112	Magnetic field-based sensing method for spherical joint. , 2010, , .		5
113	Lateral Optical Sensor With Slip Detection for Locating Live Products on Moving Conveyor. IEEE Transactions on Automation Science and Engineering, 2010, 7, 123-132.	3.4	5
114	Design concept of a novel EM-array magnetic scanning system for continuous motion control of maximum MFD. , 2014, , .		5
115	Soft-Switchable Dual-PI Controlled Axial Loading System for High-Speed EMU Axle-Box Bearing Test Rig. IEEE Transactions on Industrial Electronics, 2015, 62, 7370-7381.	5.2	5
116	Permanent Magnet Spherical Motors. Research on Intelligent Manufacturing, 2018, , .	0.2	5
117	Physics informed neural network for parameter identification and boundary force estimation of compliant and biomechanical systems. International Journal of Intelligent Robotics and Applications, 2021, 5, 313-325.	1.6	5
118	Analytical and Experimental Investigation of Temporal Interference for Selective Neuromuscular Activation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3100-3112.	2.7	5
119	Automated singulating system for transfer of live broilers. , 0, , .		4
120	Computational models for predicting the deflected shape of a non-uniform, flexible finger. , 2004, , .		4
121	Generalized Shooting Method for Analyzing Compliant Mechanisms. , 0, , .		4
122	Design and analysis of a permanent magnet spherical actuator. , 2005, , .		4
123	Design concept development of a variable magnetization motor with improved efficiency and controllable stiffness for robotic applications. Science China Technological Sciences, 2019, 62, 39-46.	2.0	4
124	Reconfigurable Impedance Sensing System for Early Rehabilitation following Stroke Recovery. , 2020, , .		4
125	Magnetic Machine Perception for Reconstruction of Nonuniform Electrical Conductivity Based on Eddy Current Model. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2318-2329.	3.7	4
126	A Novel Method for Soft Contact Sensing Based on Electrical Impedance Sensitivity Images. IEEE Sensors Journal, 2022, 22, 9296-9305.	2.4	4

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127	Sensor Fusion Based on Embedded Measurements for Real-Time Three-DOF Orientation Motion Estimation of a Weight-Compensated Spherical Motor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	4
128	Equivalent voice-coil models for real-time computation in electromagnetic actuation and sensor applications. , 2007, , .		3
129	Torque modeling of a permanent magnet spherical actuator based on magnetic dipole moment principle. , 2008, , .		3
130	Physics-based Ankle Kinematics for Estimating Internal Parameters. , 2019, , .		3
131	Feature-set characterization for target detection based on artificial color contrast and principal component analysis with robotic tealeaf harvesting applications. International Journal of Intelligent Robotics and Applications, 2021, 5, 494-509.	1.6	3
132	Supervisory control of an automated disassembly workcell based on blocking topology. , 0, , .		3
133	Force/Torque Sensing and Micro-Motion Manipulation of a Spherical Stepping Wrist Motor. , 1988, , .		3
134	Digital Magnetic Tensor Sensor With ANN Measurement Model for Human Joint Motion Sensing in Sagittal Plane. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2062-2070.	3.7	3
135	On the development of a compliant grasping mechanism for online handling of live objects. II. Design and experimental investigation. , 1999, , .		2
136	Cutting, "by pressing and slicing", applied to robotic cutting bio-materials. I. Modeling of stress distribution. , 0, , .		2
137	Torque modeling and analysis of spherical actuators with iron stator. , 2009, , .		2
138	Analytical development of a minimum bearing reaction twin-motor for duplex machining. , 2015, , .		2
139	Design of a compliant knee-motion actuator for lower extremity exoskeletons. , 2016, , .		2
140	Coupled Multiview Vision and Physics-Based Synthetic Perception for 4-D Displacement Field Reconstruction. IEEE/ASME Transactions on Mechatronics, 2016, 21, 980-992.	3.7	2
141	A Novel Current-Interference Scanning Method for Detection of Abnormal Tissues. , 2018, , .		2
142	Flexonics for Manufacturing and Robotics. Research on Intelligent Manufacturing, 2019, , .	0.2	2
143	Spine-Equivalent Beam Modeling Method With In Vivo Validation for the Analysis of Sagittal Standing Flexion. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2075-2087.	3.7	2
144	Model-Based Reconstruction of 2-D Geometrical Features Using Eddy Current Testing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	2

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145	Kinematic analysis of a three degrees of freedom in-parallel actuated manipulator. , 0, , .		1
146	Frequency reshaped quadratic control of a belt-driven robot. , 0, , .		1
147	Design algorithm for automated dynamic grasping of live birds. , 0, , .		1
148	A state space model for modern feedback control of optical fiber drawing process. , 0, , .		1
149	Parametric study on pole geometry and thermal effects of a VRSM. , 0, , .		1
150	Design method for prototyping a cost-effective VR spherical motor. , 0, , .		1
151	Dynamic model of a compliant link with large deflection and shear deformation. , 0, , .		1
152	Distributed multi-pole model for motion simulation of PM-based spherical motors. , 2007, , .		1
153	Lateral optical sensor with slip detection of natural objects on moving conveyor. , 2008, , .		1
154	Effects of bio-joint models on compliant exoskeleton design. , 2009, , .		1
155	A novel temperature based flat-plate heat flux sensor for high accuracy measurement. , 2009, , .		1
156	A novel method for locating PM marker based on magnetic field reconstruction. , 2012, , .		1
157	Design of a Passive Gait-Based Lower-Extremity-Exoskeleton for Supporting Bodyweight. Lecture Notes in Computer Science, 2015, , 230-242.	1.0	1
158	Effects of reconstructed magnetic field from sparse noisy boundary measurements on localization of active neural source. Medical and Biological Engineering and Computing, 2016, 54, 177-189.	1.6	1
159	Temperature-based alternate perception method for human-motion detection with visually impaired user applications. International Journal of Intelligent Robotics and Applications, 2017, 1, 383-398.	1.6	1
160	IjIRA inaugural issue editorial. International Journal of Intelligent Robotics and Applications, 2017, 1, 1-2.	1.6	1
161	Design Criteria for developing an Anatomy-based Ankle-Foot-Orthosis: A State-of-the art Review and Needs of Mind, Motor and Motion Recovery following Stroke. , 2018, , .		1
162	Analytical Harmonic Method for Modeling High-Frequency Oscillation With Applications to Aircraft Piston Pump Vibration Analysis. IEEE/ASME Transactions on Mechatronics, 2021, 26, 918-929.	3.7	1

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163	Prototype Development of a 3-DOF Pantographic Exoskeleton Joint with Embedded Motion Sensing System. , 2021, , .		1
164	Regenerative Effects of Orthogonal Chip Dimensions on Turning Stability of Thin-Wall Workpiece-Tool Coupled Dynamics. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3601-3612.	3.7	1
165	A Distributed Current Source Model for Analyzing Motion-Induced Eddy-Current in a Conductor With Arbitrary Movements. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3806-3818.	3.7	1
166	Vision-guided dynamic part pick-up learning algorithm. , 0, , .		0
167	Development of a Grating Interferometer with Application to HDD Servo-Track Writing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2001, 123, 445-452.	1.3	0
168	Dynamic modeling of the body inversion for automated transfer of live birds. , 0, , .		0
169	Forward/Inverse Models using Global Coordinates for Analytical Design of Compliant Mechanisms. , 2006, , .		0
170	Effects of overlapping detection on ellipsoidal object singulation with live broiler handling applications. , 2008, , .		0
171	Organized sensor network design for active feedback control. , 2009, , .		0
172	Intelligent equivalent physical simulator for nanosatellite space radiator. , 2009, , .		0
173	Simulation-based engineering science for automation in the era of information technology. , 2009, , .		0
174	A generalized framework using hardware-in-evaluation-loop for design optimization. , 2012, , .		0
175	Equivalent pin models for dynamic analysis of compound rigid-flexure multi-body systems. , 2013, , .		0
176	Distributed Current Source Method for Modeling Magnetic and Eddy-Current Fields induced in Biological Object. , 2019, , .		0
177	Bio-inspired Exoskeleton. Research on Intelligent Manufacturing, 2019, , 139-164.	0.2	0
178	Strain-based Pose Estimation for a Flexonic Mobile Node with Field Sensing Method. , 2020, , .		0
179	Numerical and Experimental Investigations of Motion-induced Eddy Current for Contactless Speed Estimation based on Distributed Current Source Model. , 2021, , .		0
180	Effects of Nonlinear Nerve Dynamics on Selective Neural Activation for Designing Field Descriptor based on Activation Function. , 2021, , .		0

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181	A Back-EMF Method for Multi-DOF Motion Detection. Research on Intelligent Manufacturing, 2018, , 109-122.	0.2	0