

# Moharram H Korayem

## List of Publications by Year in descending order

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196  
papers

2,388  
citations

236612

25  
h-index

315357

38  
g-index

203  
all docs

203  
docs citations

203  
times ranked

1211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic modeling of a mobile spatial cable-driven robot with flexible cables. <i>Nonlinear Dynamics</i> , 2022, 108, 3219-3245.	2.7	3
2	Development of 3D manipulation of viscoelastic biological cells by AFM based on contact models and oscillatory drag. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2572-2584.	1.5	4
3	Multilayered non-uniform atomic force microscope piezoelectric microcantilever control and vibration analysis considering different excitation based on the modified couple stress theory. <i>Microscopy Research and Technique</i> , 2021, 84, 943-954.	1.2	5
4	Nanomanipulation of elliptic and cubic nanoparticles with consideration of the impact theories. <i>Applied Mathematical Modelling</i> , 2021, 90, 101-113.	2.2	1
5	Studying and simulation of ellipsoidal contact models for application in AFM nano manipulation. <i>Micron</i> , 2021, 140, 102960.	1.1	1
6	Dynamic modeling of cooperative manipulators with frictional contact at the end effectors. <i>Applied Mathematical Modelling</i> , 2021, 90, 302-326.	2.2	10
7	Design and Implementation of the Voice Command Recognition and the Sound Source Localization System for Human-Robot Interaction. <i>Robotica</i> , 2021, 39, 1779-1790.	1.3	11
8	Designing an optimal control strategy for a mobile manipulator and its application by considering the effect of uncertainties and wheel slipping. <i>Optimal Control Applications and Methods</i> , 2021, 42, 1487-1511.	1.3	14
9	Path planning in three dimensional live environment with randomly moving obstacles for viscoelastic bio-particle. <i>Microscopy Research and Technique</i> , 2021, 84, 2119-2129.	1.2	0
10	Modeling the Amplitude Mode of Piezoelectric Microcantilever AFM in Contrast to the Surface of the Sample in a Liquid Medium. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 675-688.	1.7	2
11	Dynamic modeling and extended bifurcation analysis of flexible-link manipulator. <i>Mechanics Based Design of Structures and Machines</i> , 2020, 48, 87-110.	3.4	20
12	Optimal Control of a Wheeled Mobile Cable-Driven Parallel Robot ICaSbot with Viscoelastic Cables. <i>Robotica</i> , 2020, 38, 1513-1537.	1.3	8
13	A survey on dynamic modeling of manipulation of nanoparticles based on atomic force microscope and investigation of involved factors. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	13
14	The effect of liquid medium on vibration and control of the AFM piezoelectric microcantilever. <i>Microscopy Research and Technique</i> , 2020, 83, 1427-1437.	1.2	3
15	Path planning of the viscoelastic micro biological particle to minimize path length and particle's deformation using genetic algorithm. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 903-914.	1.3	1
16	Optimum path planning of elliptic and cubic nanoparticles using one and dual probe atomic force microscopes. <i>Mechanics of Advanced Materials and Structures</i> , 2020, , 1-19.	1.5	0
17	The head and neck cancer (HN-5) cell line properties extraction by AFM. <i>Journal of Biological Engineering</i> , 2020, 14, 10.	2.0	8
18	Nonclassical dynamic modeling of nano/microparticles during nanomanipulation processes. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 147-166.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Reconfigurable Mobile Robot with Adjustable Width and Length: Conceptual Design, Motion Equations and Simulation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 99, 797-814.	2.0	18
20	Modeling and simulation of three-dimensional manipulation of viscoelastic folded biological particles considering the nonlinear model of the cell by AFM. <i>Mechanics of Materials</i> , 2020, 143, 103342.	1.7	3
21	Finite-Time Feedback Linearization (FTFL) Controller Considering Optimal Gains on Mobile Mechanical Manipulators. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019, 94, 727-744.	2.0	8
22	Analysis of the atomic force microscopy vibration behavior using the Timoshenko theory by multi-scale method in the air environment. <i>Microscopy Research and Technique</i> , 2019, 82, 1787-1801.	1.2	4
23	Modeling and simulation of contact parameters of elliptical and cubic nanoparticles to be used in nanomanipulation based on atomic force microscope. <i>Ultramicroscopy</i> , 2019, 206, 112808.	0.8	8
24	Investigation of the axial load effect on the vibration and topography of the AFM oblique four-layered piezoelectric micro-cantilever. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	0
25	Investigating the motion modes of smooth/rough micro/nanoparticles with circular crowned roller geometry and computing the maximum force. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	0
26	Design and simulation of a magnetohydrodynamic micro-pump to provide time varying tensile force for vibration suppression in viscoelastic micro-beams. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 2149-2159.	0.7	8
27	Analytical and experimental investigation of the dynamic behavior of a revolute-prismatic manipulator with N flexible links and hubs. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2235-2256.	1.5	17
28	Finite-time nonsingular terminal sliding mode control: A time setting approach. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2019, 233, 1392-1412.	0.7	3
29	Neural network sliding mode controller of atomic force microscope-based manipulation with different cantilever probes. <i>Microscopy Research and Technique</i> , 2019, 82, 993-1003.	1.2	2
30	Vibration Analysis and Control of AFM Microcantilever Based on the MCS Theory Using the FSMC Control in the Air. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 7505-7514.	1.7	6
31	Effect of three types of piezoelectric cantilever on the topography quality in the vicinity of rough surface in a fluid ambient. <i>Applied Mathematical Modelling</i> , 2019, 65, 333-347.	2.2	3
32	Motion equations of cooperative multi flexible mobile manipulator via recursive Gibbs's Appell formulation. <i>Applied Mathematical Modelling</i> , 2019, 65, 443-463.	2.2	24
33	Geometric parameters effect of the atomic force microscopy smart piezoelectric cantilever on the different rough surface topography quality by considering the capillary force. <i>Microscopy Research and Technique</i> , 2019, 82, 517-529.	1.2	1
34	Simulation of 3D nanomanipulation for rough spherical elastic and viscoelastic particles in a liquid medium; experimentally determination of cell's roughness parameters and Hamaker constant's correction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 313-327.	1.5	3
35	Optimal sliding mode control design based on the state-dependent Riccati equation for cooperative manipulators to increase dynamic load carrying capacity. <i>Robotica</i> , 2019, 37, 321-337.	1.3	24
36	Sliding mode control design based on the state-dependent Riccati equation: theoretical and experimental implementation. <i>International Journal of Control</i> , 2019, 92, 2136-2149.	1.2	36

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37	Effect of hysteresis on the control of AFM Micro Robot by using both piezoelectric layer and base actuation. , 2019, , .		0
38	Buckling of Joined Composite Conical Shells Using Shear Deformation Theory under Axial Compression. Strojnicki Vestnik/Journal of Mechanical Engineering, 2019, , 574-584.	0.6	0
39	Hybrid IPSO-automata algorithm for path planning of micro-nanoparticles through random environmental obstacles, based on AFM. Journal of Mechanical Science and Technology, 2018, 32, 805-810.	0.7	8
40	Experimental and theoretical analysis of the DMASP cantilever vibration behavior based on the MCS theory in moist environment. Smart Materials and Structures, 2018, 27, 075059.	1.8	0
41	Modeling and simulation of viscoelastic biological particlesâ€™ 3D manipulation using atomic force microscopy. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	3
42	3D investigation of dynamic behavior and sensitivity analysis of the parameters of spherical biological particles in the first phase of AFM-based manipulations with the consideration of humidity effect. Journal of Theoretical Biology, 2018, 436, 105-119.	0.8	7
43	Experimental analysis of rough surface topography and modifying the humidity effect in AFM images to improve the topography quality. International Journal of Advanced Manufacturing Technology, 2018, 94, 1229-1241.	1.5	4
44	Experimental determination of folding factor of benign breast cancer cell (MCF10A) and its effect on contact models and 3D manipulation of biological particles. Biomechanics and Modeling in Mechanobiology, 2018, 17, 745-761.	1.4	8
45	Application of the stateâ€dependent Riccati equation for flexibleâ€joint arms: Controller and estimator design. Optimal Control Applications and Methods, 2018, 39, 792-808.	1.3	20
46	Controller design of cooperative manipulators using state-dependent Riccati equation. Robotica, 2018, 36, 484-515.	1.3	19
47	Vibration suppression of atomic-force microscopy cantilevers covered by a piezoelectric layer with tensile force. Journal of Mechanical Science and Technology, 2018, 32, 4135-4144.	0.7	6
48	Sensitivity analysis of surface topography using the submerged non uniform piezoelectric micro cantilever in liquid by considering interatomic force interaction. Journal of Mechanical Science and Technology, 2018, 32, 2201-2207.	0.7	8
49	The effect of glycerin solution density and viscosity on vibration amplitude of oblique different piezoelectric MC near the surface in 3D modeling. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	1
50	Analytical and FEM solutions for free vibration of joined cross-ply laminated thick conical shells using shear deformation theory. Archive of Applied Mechanics, 2018, 88, 2231-2246.	1.2	11
51	Adaptive Control of a Cable-Actuated Parallel Manipulator Mounted on a Platform with Differential Wheels under Payload Uncertainty. Scientia Iranica, 2018, .	0.3	0
52	Optimal trajectory planning for increased stability of mobile flexible manipulators undergoing large deflection. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 85-95.	1.5	4
53	Dynamic modeling and simulation of 3D manipulation on rough surfaces based on developed adhesion models. International Journal of Advanced Manufacturing Technology, 2017, 88, 529-545.	1.5	6
54	Effects of Tip Mass and Interaction Force on Nonlinear Behavior of Force Modulation FM-AFM Cantilever. Journal of Mechanics, 2017, 33, 257-268.	0.7	4

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55	Modeling of AFM with a piezoelectric layer based on the modified couple stress theory with geometric discontinuities. <i>Applied Mathematical Modelling</i> , 2017, 45, 439-456.	2.2	19
56	Maximum load of flexible joint manipulators using nonlinear controllers. <i>Robotica</i> , 2017, 35, 119-142.	1.3	11
57	Analysis the effect of different geometries of AFM's cantilever on the dynamic behavior and the critical forces of three-dimensional manipulation. <i>Ultramicroscopy</i> , 2017, 175, 9-24.	0.8	5
58	Non-singular terminal sliding mode control design for wheeled mobile manipulator. <i>Industrial Robot</i> , 2017, 44, 501-511.	1.2	7
59	Dynamic Modeling and Feedback Linearization Control of Wheeled Mobile Cable-Driven Parallel Robot Considering Cable Sag. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 4779-4788.	1.7	8
60	Derivation of dynamic equation of viscoelastic manipulator with revolute-prismatic joint using recursive Gibbs-Appell formulation. <i>Nonlinear Dynamics</i> , 2017, 89, 2041-2064.	2.7	26
61	Comprehensive modelling and simulation of cylindrical nanoparticles manipulation by using a virtual reality environment. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 75, 266-276.	1.3	3
62	Analyzing the vibrational response of an AFM cantilever in liquid with the consideration of tip mass by comparing the hydrodynamic and contact repulsive force models in higher modes. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	4
63	A new motion planning method for discretely actuated hyper-redundant manipulators. <i>Robotica</i> , 2017, 35, 101-118.	1.3	5
64	Investigation of geometrical effects in the carbon allotropes manipulation based on AFM: multiscale approach. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	5
65	Theoretical and experimental study of dynamic load-carrying capacity for flexible robotic arms in point-to-point motion. <i>Optimal Control Applications and Methods</i> , 2017, 38, 963-972.	1.3	48
66	3D simulation of AFM non-uniform piezoelectric micro-cantilever with various geometries subjected to the tip-sample forces. <i>EPJ Applied Physics</i> , 2017, 77, 20701.	0.3	4
67	Nonclassical multiscale modeling of ssDNA manipulation using a CNT-nanocarrier based on AFM. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 102-111.	2.5	10
68	Simulating the AFM-based biomanipulation of cylindrical micro/nanoparticles in different biological environments. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 1883-1894.	0.8	7
69	Dynamics and input-output feedback linearization control of a wheeled mobile cable-driven parallel robot. <i>Multibody System Dynamics</i> , 2017, 40, 55-73.	1.7	14
70	Analyzing the effect of the forces exerted on cantilever probe tip of atomic force microscope with tapering-shaped geometry and double piezoelectric extended layers in the air and liquid environments. <i>Journal of Sound and Vibration</i> , 2017, 386, 251-264.	2.1	5
71	Investigation of piezoelectric microcantilever performance in constant amplitude mode in different work environments. <i>Mechanics and Industry</i> , 2017, 18, 504.	0.5	1
72	Sensitivity Analysis in 3D Manipulation of Biological Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5205-5208.	0.9	1

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73	Effect of different AFM micro cantilever in fluid on the rough surface topography quality close to the surface. , 2017, , .		0
74	Tracking Control and Vibration Reduction of Flexible Cable-Suspended Parallel Robots using a Robust Input Shaper. Scientia Iranica, 2017, .	0.3	1
75	Hysteresis effect on dynamic modeling of AFM heterogeneous dagger MC in the vicinity of sample using MCS theory in liquid. EPJ Applied Physics, 2016, 76, 20401.	0.3	2
76	A hybrid co-evolutionary genetic algorithm for multiple nanoparticle assembly task path planning. International Journal of Advanced Manufacturing Technology, 2016, 87, 3527-3543.	1.5	21
77	Finite time SDRE control design for mobile robots with differential wheels. Journal of Mechanical Science and Technology, 2016, 30, 4353-4361.	0.7	11
78	Path planning in the AFM nanomanipulation of multiple spherical nanoparticles by using a coevolutionary Genetic Algorithm. , 2016, , .		5
79	Effects of damping and stiffness of AFM cantilever on the imaging of fine surfaces. Microscopy Research and Technique, 2016, 79, 982-992.	1.2	1
80	Optimal regulation of a cable suspended robot equipped with cable interfering avoidance controller. Advanced Robotics, 2016, 30, 1273-1287.	1.1	2
81	The effect of surfaces type on vibration behavior of piezoelectric micro-cantilever close to sample surface in a humid environment based on MCS theory. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	6
82	Simulating the Manipulation of Various Biological Micro/Nanoparticles by Considering a Crowned Roller Geometry. Arabian Journal for Science and Engineering, 2016, 41, 4449-4462.	1.1	2
83	Using the Multiasperity Models to Investigate the Effect of Cylindrical Micro/Nanoparticle Roughness on the Critical Manipulation Forces. IEEE Nanotechnology Magazine, 2016, 15, 911-921.	1.1	8
84	Determining load carrying capacity of a manipulator by game theory: Closed-loop nonzero-sum differential game approach. Journal of Mechanical Science and Technology, 2016, 30, 5197-5205.	0.7	1
85	Molecular dynamics simulation of nanomanipulation based on AFM in liquid ambient. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7
86	Analysis of hysteresis effect on the vibration motion of a bimodal non-uniform micro-cantilever using MCS theory. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	16
87	Algorithm for determining the cantilever load carrying capacity in the 3D manipulation of nanoparticles with geometrical constraints based on FEM simulations. Robotica, 2016, 34, 2087-2104.	1.3	4
88	Analyzing the Effect of Capillary Force on Vibrational Performance of the Cantilever of an Atomic Force Microscope in Tapping Mode with Double Piezoelectric Layers in an Air Environment. Microscopy and Microanalysis, 2015, 21, 1195-1206.	0.2	1
89	FEM analysis of the vibrational motion of oblique piezoelectric microcantilever in the vicinity of a sample surface in liquid. Precision Engineering, 2015, 42, 208-217.	1.8	12
90	Suboptimal tracking control of nonlinear systems via state-dependent differential Riccati equation for robotic manipulators. , 2015, , .		6

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91	Modeling and simulation of three dimensional manipulations of biological micro/nanoparticles by applying cylindrical contact mechanics models by means of AFM. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	9
92	Sliding mode control design with adaptable gains for robotic manipulators. , 2015, , .		3
93	Dynamic modeling and parametric analysis of dual arm manipulator with revolute-prismatic joints mounted on a nonholonomic mobile base. , 2015, , .		0
94	Nonlinear suboptimal SDRE controller for cooperative manipulators to increase dynamic load carrying capacity. , 2015, , .		2
95	Three-dimensional modeling and simulation of the AFM-based manipulation of spherical biological micro/nanoparticles with the consideration of contact mechanics theories. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2015, 229, 370-382.	0.5	9
96	Optimal regulation of a cable robot in presence of obstacle using optimal adaptive feedback linearization approach. Robotica, 2015, 33, 933-952.	1.3	4
97	Investigating the effect of surface roughness on the critical sliding and rolling forces of cylindrical nanoparticles based on the multi-asperity contact models. Applied Physics A: Materials Science and Processing, 2015, 120, 1511-1528.	1.1	8
98	Effect of geometrical and environmental parameters on vibration of multi-layered piezoelectric microcantilever in amplitude mode. Applied Physics A: Materials Science and Processing, 2015, 121, 203-215.	1.1	4
99	Modeling and simulation of AFM cantilever with two piezoelectric layers submerged in liquid over rough surfaces. Precision Engineering, 2015, 42, 261-275.	1.8	10
100	Robust Controlled Manipulation of Nanoparticles Using the AFM Nanorobot Probe. Arabian Journal for Science and Engineering, 2015, 40, 2685-2699.	1.1	9
101	Path planning algorithm in wheeled mobile manipulators based on motion of arms. Journal of Mechanical Science and Technology, 2015, 29, 1753-1763.	0.7	42
102	Modeling and simulation of critical forces in the manipulation of cylindrical nanoparticles. International Journal of Advanced Manufacturing Technology, 2015, 79, 1505-1517.	1.5	9
103	A new approach for dynamic modeling of n-viscoelastic-link robotic manipulators mounted on a mobile base. Nonlinear Dynamics, 2015, 79, 2767-2786.	2.7	42
104	State-dependent differential Riccati equation to track control of time-varying systems with state and control nonlinearities. ISA Transactions, 2015, 57, 117-135.	3.1	52
105	Accurate nonlinear modeling for flexible manipulators using mixed finite element formulation in order to obtain maximum allowable load. Journal of Mechanical Science and Technology, 2015, 29, 3971-3982.	0.7	11
106	Sobol method application in dimensional sensitivity analyses of different AFM cantilevers for biological particles. Modern Physics Letters B, 2015, 29, 1550123.	1.0	1
107	Investigating the effective parameters in the Atomic Force Microscope-based dynamic manipulation of rough micro/nanoparticles by using the Sobol sensitivity analysis method. Simulation, 2015, 91, 1068-1080.	1.1	2
108	Compensating the flexibility uncertainties of a cable suspended robot using SMC approach. Robotica, 2015, 33, 578-598.	1.3	14

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109	Finite-time state-dependent Riccati equation for time-varying nonaffine systems: Rigid and flexible joint manipulator control. ISA Transactions, 2015, 54, 125-144.	3.1	100
110	Vibrational analysis of single-layered piezoelectric AFM microcantilever in amplitude mode by considering the capillary force. EPJ Applied Physics, 2014, 68, 30402.	0.3	15
111	Simulating the impact between particles with applications in nanotechnology fields (identification of) Tj ETQq1 1 0,784314 rgBT /Ove	2.3	8
112	A comparative study on SMC, OSMC and SDRE for robot control. , 2014, , .		7
113	Derivation of dynamic equations and parametric analysis for dual arm mobile manipulators using recursive Gibbs-Appell formulation. , 2014, , .		1
114	Nonlinear optimal control via finite time horizon state-dependent Riccati equation. , 2014, , .		10
115	Dynamic modeling and simulation of cylindrical nanoparticles in liquid medium. International Journal of Advanced Manufacturing Technology, 2014, 75, 197-208.	1.5	3
116	New optimization method to solve motion planning of dynamic systems: application on mechanical manipulators. Multibody System Dynamics, 2014, 31, 169-189.	1.7	5
117	Optimal motion planning of non-linear dynamic systems in the presence of obstacles and moving boundaries using SDRE: application on cable-suspended robot. Nonlinear Dynamics, 2014, 76, 1423-1441.	2.7	37
118	Modeling of various contact theories for the manipulation of different biological micro/nanoparticles based on AFM. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	24
119	Optimal point-to-point motion planning of non-holonomic mobile robots in the presence of multiple obstacles. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 221-232.	0.8	18
120	Maximum Allowable Load of Mobile Manipulator in the Presence of Obstacle Using Non-Linear Open and Closed Loop Optimal Control. Arabian Journal for Science and Engineering, 2014, 39, 4103-4117.	1.1	4
121	Kinematic and dynamic modeling of viscoelastic robotic manipulators using Timoshenko beam theory: theory and experiment. International Journal of Advanced Manufacturing Technology, 2014, 71, 1005-1018.	1.5	46
122	A novel method for recording the position and orientation of the end effector of a spatial cable-suspended robot and using for closed-loop control. International Journal of Advanced Manufacturing Technology, 2014, 72, 739-755.	1.5	12
123	Design and manufacturing a torque measurement mechanism for the motors of ICaSbot robot and developing its applications. International Journal of Advanced Manufacturing Technology, 2014, 71, 439-458.	1.5	0
124	Systematic modeling of a chain of N-flexible link manipulators connected by revoluteâ€“prismatic joints using recursive Gibbs-Appell formulation. Archive of Applied Mechanics, 2014, 84, 187-206.	1.2	57
125	Optimal path planning of a cable-suspended robot with moving boundary using optimal feedback linearization approach. Nonlinear Dynamics, 2014, 78, 1515-1543.	2.7	18
126	Dynamic 3D modeling and simulation of nanoparticles manipulation using an AFM nanorobot. Robotica, 2014, 32, 625-641.	1.3	22



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127	Comments on the Dynamic Analysis of V-Shaped Atomic Force Microscopy in Liquid Environment by Considering Timoshenko Beam Theory. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7251-7263.	1.1	1
128	Dynamic Load-Carrying Capacity of Multi-arm Cooperating Wheeled Mobile Robots via Optimal Load Distribution Method. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 6421-6433.	1.1	10
129	OPTIMAL FEEDBACK LINEARIZATION CONTROL OF A FLEXIBLE CABLE ROBOT. <i>Latin American Applied Research</i> , 2014, 44, 259-265.	0.2	2
130	Development of ICASBOT: A Cable-Suspended Robot™s with Six DOF. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 1131-1149.	1.1	15
131	Optimal Trajectory Planning for Flexible Link Manipulators with Large Deflection Using a New Displacements Approach. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013, 72, 287-300.	2.0	26
132	Vibration response of an atomic force microscopy piezoelectrically actuated microcantilever in liquid environment. <i>Micro and Nano Letters</i> , 2013, 8, 229-233.	0.6	1
133	Trajectory optimization of nonholonomic mobile manipulators departing to a moving target amidst moving obstacles. <i>Acta Mechanica</i> , 2013, 224, 995-1008.	1.1	14
134	Simulation of Two-Dimensional Nanomanipulation of Particles Based on the HK and LuGre Friction Models. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 1573-1585.	1.1	2
135	An experimental electronic interface design for a two-link elastic robotic arm. , 2013, , .		3
136	Experimental results for the flexible joint cable-suspended manipulator of ICaSbot. <i>Robotica</i> , 2013, 31, 887-904.	1.3	2
137	Effects of macro-scale uncertainties on the imaging and automatic manipulation of nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	5
138	Trajectory planning of mobile manipulators using dynamic programming approach. <i>Robotica</i> , 2013, 31, 643-656.	1.3	11
139	Modelling and simulation of dynamic modes in manipulation of nanorods. <i>Micro and Nano Letters</i> , 2013, 8, 284-287.	0.6	13
140	Modeling of contact theories for the manipulation of biological micro/nanoparticles in the form of circular crowned rollers based on the atomic force microscope. <i>Journal of Applied Physics</i> , 2013, 114, 183715.	1.1	14
141	Dynamics of Carbon Nanotube Tipped Atomic Force Microscopy in Liquid. <i>Microscopy and Microanalysis</i> , 2013, 19, 761-768.	0.2	0
142	Analysis of AFM cantilever dynamics close to sample surface. <i>EPJ Applied Physics</i> , 2013, 63, 10401.	0.3	1
143	Maximum load determination of nonholonomic mobile manipulator using hierarchical optimal control. <i>Robotica</i> , 2012, 30, 53-65.	1.3	40
144	Smooth Jerk-Bounded Optimal Path Planning of Tricycle Wheeled Mobile Manipulators in the Presence of Environmental Obstacles. <i>International Journal of Advanced Robotic Systems</i> , 2012, 9, 105.	1.3	8

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145	Optimal Path Planning of Spatial Cable Robot Using Optimal Sliding Mode Control. International Journal of Advanced Robotic Systems, 2012, 9, 168.	1.3	14
146	Dynamic Modeling of Nanoparticle Pushing Based on V-Shape Cantilevered AFM. Arabian Journal for Science and Engineering, 2012, 37, 1665-1679.	1.1	2
147	FORCE TRANSDUCER MODELING OF RECTANGULAR, V-SHAPED, AND DAGGER CANTILEVER PROBES BASED ON ATOMIC FORCE MICROSCOPY. Instrumentation Science and Technology, 2012, 40, 338-354.	0.9	3
148	Virtual reality interface for nano-manipulation based on enhanced images. International Journal of Advanced Manufacturing Technology, 2012, 63, 1153-1166.	1.5	12
149	Analytical design of optimal trajectory with dynamic load-carrying capacity for cable-suspended manipulator. International Journal of Advanced Manufacturing Technology, 2012, 60, 317-327.	1.5	20
150	Mathematical modeling and trajectory planning of mobile manipulators with flexible links and joints. Applied Mathematical Modelling, 2012, 36, 3229-3244.	2.2	67
151	Exploring the tip-sample interaction regimes in the presence of hysteretic forces in the tapping mode atomic force microscopy. Journal of Applied Physics, 2011, 110, 024512.	1.1	5
152	Path Planning of Mobile Elastic Robotic Arms by Indirect Approach of Optimal Control. International Journal of Advanced Robotic Systems, 2011, 8, 10.	1.3	49
153	Maximum DLCC of Spatial Cable Robot for a Predefined Trajectory Within the Workspace Using Closed Loop Optimal Control Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 75-99.	2.0	46
154	Indentation analysis of nano-particle using nano-contact mechanics models during nano-manipulation based on atomic force microscopy. Journal of Nanoparticle Research, 2011, 13, 1075-1091.	0.8	39
155	Dynamic modeling of submerged nanoparticle pushing based on atomic force microscopy in liquid medium. Journal of Nanoparticle Research, 2011, 13, 5009-5019.	0.8	25
156	Analysis of the effect of mechanical properties of liquid and geometrical parameters of cantilever on the frequency response function of AFM. International Journal of Advanced Manufacturing Technology, 2011, 57, 477-489.	1.5	19
157	A Correction Algorithm for the Torque/Rotation Coefficient Used in the Prediction of Protein Conformations Using Robotic Methods. Arabian Journal for Science and Engineering, 2011, 36, 867-877.	1.1	0
158	Nonlinear dynamic analysis for elastic robotic arms. Frontiers of Mechanical Engineering, 2011, 6, 219.	2.5	7
159	Nonlinear dynamics of tapping-mode atomic force microscopy in liquid. Journal of Applied Physics, 2011, 109, 084301.	1.1	21
160	Simulation of Routing in Nano-Manipulation for Creating Pattern with Atomic Force Microscopy Using Hybrid GA and PSO-AS Algorithms. Lecture Notes in Computer Science, 2011, , 606-615.	1.0	1
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