

Bo Song

List of Publications by Year in descending order

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41
papers

428
citations

1040056

9
h-index

1199594

12
g-index

41
all docs

41
docs citations

41
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	Photothermal Effect Induced Negative Photoconductivity and High Responsivity in Flexible Black Phosphorus Transistors. ACS Nano, 2017, 11, 6048-6056.	14.6	104
2	Single Pixel Black Phosphorus Photodetector for Near-Infrared Imaging. Small, 2018, 14, 1702082.	10.0	56
3	Asymmetric Hysteresis Modeling and Compensation Approach for Nanomanipulation System Motion Control Considering Working-Range Effect. IEEE Transactions on Industrial Electronics, 2017, 64, 5513-5523.	7.9	51
4	Cellular level robotic surgery: Nanodissection of intermediate filaments in live keratinocytes. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 137-145.	3.3	31
5	Cellular-Level Surgery Using Nano Robots. Journal of the Association for Laboratory Automation, 2012, 17, 425-434.	2.8	27
6	Video rate Atomic Force Microscopy (AFM) imaging using compressive sensing. , 2011, , .		24
7	Compressive Feedback-Based Motion Control for Nanomanipulation—Theory and Applications. IEEE Transactions on Robotics, 2014, 30, 103-114.	10.3	21
8	Non-vector space approach for nanoscale motion control. Automatica, 2014, 50, 1835-1842.	5.0	16
9	Enhanced Nonvector Space Approach for Nanoscale Motion Control. IEEE Nanotechnology Magazine, 2018, 17, 994-1005.	2.0	15
10	Visual servoing using non-vector space control theory. , 2012, , .		11
11	Task Space Motion Control for AFM-Based Nanorobot Using Optimal and Ultralimit Archimedean Spiral Local Scan. IEEE Robotics and Automation Letters, 2020, 5, 282-289.	5.1	11
12	Mutation analysis models for visual servoing in nanomanipulations. , 2011, , .		10
13	Non-vector space control for nanomanipulations based on compressive feedbacks. , 2012, , .		10
14	High precision positioning control for SPM based nanomanipulation: A robust adaptive model reference control approach. , 2014, , .		6
15	On-line sensing and visual feedback for atomic force microscopy (AFM) based nano-manipulations. , 2010, , .		4
16	The Development of an Infrared Camera Using Graphene: Achieving Efficient High-Resolution Infrared Images.. IEEE Nanotechnology Magazine, 2012, 6, 4-7.	1.3	4
17	Stability analysis of non-vector space control via compressive feedbacks. , 2012, , .		3
18	Development of 3D hyperspectral camera using compressive sensing. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
19	Substrate effect on single carbon nanotube based infrared sensors. , 2013, , .		3
20	Controllable electrical breakdown of multiwall carbon nanotubes. , 2014, , .		3
21	Characterizing AFM Tip Lateral Positioning Variability Through Non-Vector Space Control-Based Nanometrology. IEEE Nanotechnology Magazine, 2020, 19, 56-60.	2.0	3
22	Non-vector space stochastic control for nano robotic manipulations. , 2014, , .		2
23	Nanorobot enabled in situ sensing molecular interactions for drug discovery. , 2016, , .		2
24	Nonconvex compressive video sensing. Journal of Electronic Imaging, 2016, 25, 063003.	0.9	2
25	3D Periodic Magnetic Servoing System for Microrobot Actuation Using Decoupled Asynchronous Repetitive Control Approach. , 2021, , .		2
26	Manipulation and assembly methods for graphene based nano devices. , 2010, , .		1
27	Uncooled infrared sensing using graphene. , 2011, , .		1
28	Bio-inspired scanning for video-imaging using an atomic force microscope. , 2012, , .		1
29	An Indeterministic Vision-Based State Observer for Growing Magnetic Microrobot Motion Status Estimation. , 2022, , .		1
30	Atomic Force Microscopy based nanorobotic operations for biomedical investigations. , 2010, , .		0
31	Cellular tensegrity modeling with Atomic Force Microscopy (AFM) experimentation. , 2010, , .		0
32	Carbon nanotube based multiple spectrum infrared camera. , 2011, , .		0
33	Photonic crystal with a HfO_2 defect to improve performance of carbon nanotube based photodetectors. , 2011, , .		0
34	Nano-robot enabled characterizations of local electrical properties for nano-structures. , 2012, , .		0
35	In situ visualization of dynamic interactions of cellulase and cellulose molecules. , 2014, , .		0
36	In Vivo tumor interstitial fluid pressure measurement using static micro force sensor and mechanical tumor model. , 2014, , .		0

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37	Parasitic capacitive coupling analysis of carbon nanotube based infrared detector. , 2015, , .		0
38	Kinetics of enzymatic hydrolysis revealed by video rate AFM single molecule analysis. , 2015, , .		0
39	Single image super resolution infrared camera using carbon nanotube photodetector. , 2015, , .		0
40	Characterizing nanomaterial photoelectric properties using two photon laser scanning microscopy. , 2016, , .		0
41	Multi-layer coated nanorobot end-effector for efficient drug delivery. , 2016, , .		0