Pawan Tyagi

List of Publications by Year in descending order

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ΡΑΝΛΑΝ ΤΥΛΟΙ

#	Article	IF	CITATIONS
1	Impact of ferromagnetic electrode length and thickness on Magnetic Tunnel Junction-Based Molecular Spintronic Devices (MTJMSD). Organic Electronics, 2022, 102, 106429.	2.6	8
2	Easy axis anisotropy creating high contrast magnetic zones on magnetic tunnel junctions based molecular spintronics devices (MTJMSD). Scientific Reports, 2022, 12, 5721.	3.3	3
3	Dramatic effect of electrode type on tunnel junction based molecular spintronic devices. Organic Electronics, 2022, 106, 106526.	2.6	2
4	Spatial influence of paramagnetic molecules on magnetic tunnel junction-based molecular spintronic devices (MTJMSD). Chemical Physics Letters, 2022, 800, 139667.	2.6	1
5	Spin state of a single-molecule magnet (SMM) creating long-range ordering on ferromagnetic layers of a magnetic tunnel junction – a Monte Carlo study. RSC Advances, 2021, 11, 32275-32285.	3.6	6
6	Study of Anisotropy on Ferromagnetic Electrodes of a Magnetic Tunnel Junction-Based Molecular Spintronics Device (MTJMSD). , 2021, , .		0
7	The Hysteresis LOOP Studies Of Magnetic TunnelJunction-basedMolecular Spintronics Devices (mtjmsd) Employing Monte Carlo Simulations. , 2021, , .		0
8	Impact of Spin Fluctuation on the magnetic properties of Magnetic Tunnel Junction-Based Molecular Spintronic Device (MTJMSD). , 2021, , .		0
9	Interaction between magnetic molecules and two ferromagnetic electrodes of a magnetic tunnel junction (MTJ). Journal of Magnetism and Magnetic Materials, 2021, 529, 167902.	2.3	7
10	Molecular coupling competing with defects within insulator of the magnetic tunnel junction-based molecular spintronics devices. Scientific Reports, 2021, 11, 17128.	3.3	7
11	Impact of direct exchange coupling via the insulator on the magnetic tunnel junction based molecular spintronics devices with competing molecule induced inter-electrode coupling. AIP Advances, 2021, 11, 015228.	1.3	3
12	Monte Carlo simulation to study the effect of molecular spin state on the spatio-temporal evolution of equilibrium magnetic properties of magnetic tunnel junction based molecular spintronics devices. AIP Advances, 2021, 11, 015340.	1.3	6
13	Roughness Reduction of Additively Manufactured Steel by Electropolishing. International Journal of Advanced Manufacturing Technology, 2020, 106, 1337-1344.	3.0	21
14	Exploring room-temperature transport of single-molecule magnet-based molecular spintronics devices using the magnetic tunnel junction as a device platform. RSC Advances, 2020, 10, 13006-13015.	3.6	19
15	Molecular spintronics devices exhibiting properties of a solar cell. Nanotechnology, 2019, 30, 495401.	2.6	17
16	Magnetic force microscopy revealing long range molecule impact on magnetic tunnel junction based molecular spintronics devices. Organic Electronics, 2019, 75, 105421.	2.6	19
17	Reducing surface roughness by chemical polishing of additively manufactured 3D printed 316 stainless steel components. International Journal of Advanced Manufacturing Technology, 2019, 100, 2895-2900.	3.0	54
18	Reducing the roughness of internal surface of an additive manufacturing produced 316 steel component by chempolishing and electropolishing. Additive Manufacturing, 2019, 25, 32-38.	3.0	96

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19	Magnetic tunnel junction based molecular spintronics devices exhibiting current suppression at room temperature. Organic Electronics, 2019, 64, 188-194.	2.6	21
20	Large resistance change on magnetic tunnel junction based molecular spintronics devices. Journal of Magnetism and Magnetic Materials, 2018, 453, 186-192.	2.3	22
21	Nanoscale Tantalum layer impacting magnetic properties of tunnel junction-based molecular devices. MRS Communications, 2018, 8, 1024-1028.	1.8	4
22	GaAs(100) Surface Passivation with Sulfide and Fluoride Ions. MRS Advances, 2017, 2, 2915-2920.	0.9	1
23	Taguchi Design of Experiment Enabling the Reduction of Spikes on the Sides of Patterned Thin Films for Tunnel Junction Fabrication. MRS Advances, 2017, 2, 3025-3030.	0.9	2
24	Taguchi Design of Experiment for the Optimization of Electrochemical Polishing of Metal Additive Manufacturing Components. , 2016, , .		9
25	Patternable Rough Textured Gold Microwire for Neurochemical Sensing. MRS Advances, 2016, 1, 717-721.	0.9	1
26	Addressing the Challenges of Using Ferromagnetic Electrodes in Molecular Devices. MRS Advances, 2016, 1, 483-488.	0.9	0
27	Monte Carlo and Experimental Magnetic Studies of Molecular Spintronics Devices. Nano, 2015, 10, 1550056.	1.0	5
28	Addressing the challenges of using ferromagnetic electrodes in the magnetic tunnel junction-based molecular spintronics devices. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	17
29	Paramagnetic molecule induced strong antiferromagnetic exchange coupling on a magnetic tunnel junction based molecular spintronics device. Nanotechnology, 2015, 26, 305602.	2.6	30
30	Advantages of Prefabricated Tunnel Junction-Based Molecular Spintronics Devices. Nano, 2015, 10, 1530002.	1.0	16
31	Tunnel junction testbed based molecular devices. , 2014, , .		0
32	A Monte Carlo study of molecular nanostructure based spintronics devices. , 2014, , .		0
33	Molecular Magnet Induced Transformative Effects in Molecular Spintronics Devices: A Monte Carlo Study. Materials Research Society Symposia Proceedings, 2013, 1508, 1.	0.1	1
34	Room Temperature Current Suppression on Magnetic Tunnel Junction Based Molecular Spintronics Devices. Materials Research Society Symposia Proceedings, 2013, 1507, 1.	0.1	0
35	Spin Photovoltaic Effect on Molecule Coupled Ferromagnetic Films of a Magnetic Tunnel Junction. , 2013, , .		0

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37	Molecule Induced Strong Coupling between Ferromagnetic Electrodes of a Molecular Spintronics Device. Materials Science Forum, 2012, 736, 32-54.	0.3	7
38	Dielectrophoretic assembly of ordered nanostructures: Harnessing thermal randomness and inter-particle interactions. , 2012, , .		1
39	Fabrication of tunnel junction-based molecular electronics and spintronics devices. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	11
40	Nanowire-based surface-enhanced Raman spectroscopy (SERS) for chemical warfare simulants. Proceedings of SPIE, 2012, , .	0.8	3
41	Molecular electronics and spintronics devices produced by the plasma oxidation of photolithographically defined metal electrode. Applied Physics A: Materials Science and Processing, 2012, 108, 529-536.	2.3	5
42	Multilayer edge molecular electronics devices: a review. Journal of Materials Chemistry, 2011, 21, 4733.	6.7	60
43	Quantitative analysis of parallel nanowire array assembly by dielectrophoresis. Nanoscale, 2011, 3, 1059-1065.	5.6	25
44	Catalytic Action of Gold and Copper Crystals in the Growth of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 3609-3615.	0.9	7
45	Ultrathin TaOx film based photovoltaic device. Thin Solid Films, 2011, 519, 2355-2361.	1.8	7
46	Selective lateral ZnO nanowire growth by surface diffusion on nanometer scale–patterned alumina on silicon. Journal of Materials Research, 2011, 26, 2224-2231.	2.6	3
47	Electrochemically grown rough-textured nanowires. Journal of Nanoparticle Research, 2010, 12, 1065-1072.	1.9	4
48	Reversible Actuation of Microstructures by Surfaceâ€Chemical Modification of Thinâ€Film Bilayers. Advanced Materials, 2010, 22, 407-410.	21.0	55
49	Mechanism of ultrathin tunnel barrier failure due to mechanical-stress-induced nanosized hillocks and voids. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 517-521.	1.2	21
50	MOLECULAR SPIN DEVICES: CURRENT UNDERSTANDING AND NEW TERRITORIES. Nano, 2009, 04, 325-338.	1.0	16
51	Patternable Nanowire Sensors for Electrochemical Recording of Dopamine. Analytical Chemistry, 2009, 81, 9979-9984.	6.5	50
52	Self-Assembly Based on Chromium/Copper Bilayers. Journal of Microelectromechanical Systems, 2009, 18, 784-791.	2.5	46
53	Scanning surface-enhanced Raman spectroscopy (SERS) of chemical agent simulants on templated Au-Ag nanowire substrates. , 2009, , .		1
54	Insulator Film Thickness to Fix the Spacing between Electrodes to Molecular Length Scale. , 2007, , .		2

#	Article	IF	CITATIONS
55	Molecular Electrodes at the Exposed Edge of Metal/Insulator/Metal Trilayer Structures. Journal of the American Chemical Society, 2007, 129, 4929-4938.	13.7	53