

Shashi Paul

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,059
citations

15
h-index

31
g-index

85
ext. papers

1,220
ext. citations

3.3
avg, IF

4.34
L-index

#	Paper	IF	Citations
74	To Be or Not to Be - Review of Electrical Bistability Mechanisms in Polymer Memory Devices.. <i>Small</i> , 2022 , e2106442	11	4
73	Rational design on materials for developing next generation lithium-ion secondary battery. <i>Progress in Solid State Chemistry</i> , 2021 , 62, 100298	8	18
72	Single step ohmic contact for heavily doped n-type silicon. <i>Applied Surface Science</i> , 2020 , 506, 144686	6.7	6
71	Comparative Study of Silicon Nanowires Grown From Ga, In, Sn, and Bi for Energy Harvesting. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 1667-1674	3.7	1
70	e-Information on Wires: A First Step toward Two-Terminal Silicon Nanowires for Electronic Memory Devices. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2018-2024	4	2
69	Wire-bar coating of doped Nickle oxide thin films from metal organic compounds. <i>Applied Surface Science</i> , 2019 , 488, 903-910	6.7	2
68	Inkjet Printing of Functional Electronic Memory Cells: A Step Forward to Green Electronics. <i>Micromachines</i> , 2019 , 10,	3.3	9
67	Carrier selective metal-oxides for self-doped silicon nanowire solar cells. <i>Applied Surface Science</i> , 2019 , 492, 856-861	6.7	2
66	3-D Printing of Flexible Two Terminal Electronic Memory Devices. <i>MRS Advances</i> , 2018 , 3, 1603-1608	0.7	
65	Stability of hydrogenated amorphous carbon thin films for application in electronic devices. <i>Diamond and Related Materials</i> , 2018 , 90, 172-180	3.5	8
64	Binder-free Sn-Si heterostructure films for high capacity Li-ion batteries.. <i>RSC Advances</i> , 2018 , 8, 16726-16737	3.7	5
63	In-situ catalyst mediated growth and self-doped silicon nanowires for use in nanowire solar cells. <i>Vacuum</i> , 2017 , 139, 178-184	3.7	12
62	Creating Electrical Bistability Using Nano-bits Application in 2-Terminal Memory Devices. <i>MRS Advances</i> , 2017 , 2, 195-208	0.7	2
61	A study of selenium nanoparticles as charge storage element for flexible semi-transparent memory devices. <i>Applied Surface Science</i> , 2017 , 424, 330-336	6.7	5
60	Stability study: Transparent conducting oxides in chemically reactive plasmas. <i>Applied Surface Science</i> , 2017 , 424, 316-323	6.7	5
59	Birth of silicon nanowires covered with protective insulating blanket. <i>MRS Communications</i> , 2017 , 7, 854-861		
58	Charge-Trap-Non-volatile Memory and Focus on Flexible Flash Memory Devices 2017 , 55-89		1

57	A new approach for two-terminal electronic memory devices - Storing information on silicon nanowires. <i>Scientific Reports</i> , 2016 , 6, 27506	4.9	9
56	A new application of high-efficient silver salts-based photocatalyst under natural indoor weak light for wastewater cleaning. <i>Water Research</i> , 2015 , 81, 366-74	12.5	33
55	Investigation of optical properties of nickel oxide thin films deposited on different substrates. <i>Applied Surface Science</i> , 2015 , 352, 10-15	6.7	41
54	Bayesian Estimation of Density via Multiple Sequential Inversions of Two-Dimensional Images With Application to Electron Microscopy. <i>Technometrics</i> , 2015 , 57, 217-233	1.4	1
53	Bayesian Learning of Material Density Function by Multiple Sequential Inversions of 2-D Images in Electron Microscopy. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 35-48	0.2	
52	Porous Ag ₃ PO ₄ microtubes with improved photocatalytic properties. <i>Catalysis Communications</i> , 2014 , 52, 49-52	3.2	22
51	Route to enhance the efficiency of organic photovoltaic solar cells - by adding ferroelectric nanoparticles to P3HT/PCBM admixture. <i>EPJ Photovoltaics</i> , 2014 , 5, 50403	0.7	2
50	Switching in Polymer Memory Devices Based on Polymer and Nanoparticles Admixture. <i>Advances in Science and Technology</i> , 2014 , 95, 107-112	0.1	
49	Two Terminal Non-Volatile Memory Devices Using Diamond-Like Carbon and Silicon Nanostructures. <i>Advances in Science and Technology</i> , 2014 , 95, 100-106	0.1	2
48	Two-Terminal Non-Volatile Memory Devices Using Silicon Nanowires as the Storage Medium. <i>Advances in Science and Technology</i> , 2014 , 95, 78-83	0.1	2
47	Growth of low temperature silicon nano-structures for electronic and electrical energy generation applications. <i>Nanoscale Research Letters</i> , 2013 , 8, 83	5	13
46	(Invited) Electrical Conductivity Bistability in Nano-Composite. <i>ECS Transactions</i> , 2013 , 53, 141-148	1	2
45	Rare-earth substituted HfO ₂ thin films grown by metalorganic chemical vapor deposition. <i>Thin Solid Films</i> , 2012 , 520, 4512-4517	2.2	9
44	Sc ₂ O ₃ , Er ₂ O ₃ , and Y ₂ O ₃ thin films by MOCVD from volatile guanidinate class of rare-earth precursors. <i>Dalton Transactions</i> , 2012 , 41, 13936-47	4.3	35
43	Memory Effect of a Different Materials as Charge Storage Elements for Memory Applications. <i>Advances in Science and Technology</i> , 2012 , 77, 205-208	0.1	0
42	Fabrication of Photovoltaic Devices using Novel Organic Polymer/Nanostructure Blends. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1303, 75		
41	High Mobility ZnO thin film transistors using the novel deposition of high-k dielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1315, 1		2
40	Small Organic Molecules for Electrically Re-writable Non-volatile Polymer Memory Devices. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1250, 1		4

39	Low Temperature Growth of Silicon Structures for Application in Flash Memory Devices. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1250, 1		
38	Photoconductivity Measurements of Organic Polymer/Nanostructure Blends. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1270, 1		
37	Ferroelectric Nanoparticles in Polyvinyl Acetate (PVAc) Matrix: A Method to Enhance the Dielectric Constant of Polymers. <i>Nanoscience and Nanotechnology Letters</i> , 2010 , 2, 41-45	0.8	3
36	First contact-charging of gold nanoparticles by electrostatic force microscopy. <i>Applied Physics Letters</i> , 2010 , 96, 043120	3-4	7
35	Electronic polymer memory devices: Easy to fabricate, difficult to understand. <i>Thin Solid Films</i> , 2010 , 519, 587-590	2.2	5
34	Memory devices based on small organic molecules donor-acceptor system. <i>Thin Solid Films</i> , 2010 , 519, 559-562	2.2	14
33	Electrical and morphological properties of polystyrene thin films for organic electronic applications. <i>Vacuum</i> , 2010 , 84, 1240-1243	3-7	19
32	Optimising the Low Temperature Growth of Uniform ZnO Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1201, 260		
31	Capacitance-Voltage Analysis of ZrO ₂ Thin Films Deposited by Thermal MOCVD Technique. <i>ECS Transactions</i> , 2009 , 25, 901-907	1	3
30	Gold nanoparticle charge trapping and relation to organic polymer memory devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 4215-25	3	25
29	Rare-Earth Based Oxide and Nitride Thin Films Employing Volatile Homoleptic Guanidinate Precursors. <i>ECS Transactions</i> , 2009 , 25, 143-150	1	3
28	Overview of organic memory devices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 4141-57	3	58
27	Lanthanide Oxide Thin Films by Metalorganic Chemical Vapor Deposition Employing Volatile Guanidinate Precursors. <i>Chemistry of Materials</i> , 2009 , 21, 5443-5455	9.6	38
26	Electrical bistability in a composite of polymer and barium titanate nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 4227-34	3	15
25	Electrical properties of nanometre thin film polystyrene for organic electronic applications. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2008 , 15, 905-909	2.3	12
24	A Novel Method for the growth of Low Temperature Silicon Structures for 3-D Flash Memory Devices. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1112, 1		
23	Gold Nanoparticle Based Electrically Rewritable Polymer Memory Devices. <i>Advances in Science and Technology</i> , 2008 , 54, 480-485	0.1	8
22	Electrically Re-Writable Non-Volatile Memory Device - Using a Blend of Sea Salt and Polymer. <i>Advances in Science and Technology</i> , 2008 , 54, 486-490	0.1	4

21	Realization of Nonvolatile Memory Devices Using Small Organic Molecules and Polymer. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 191-195	2.6	35
20	Substrate selection for the infra-red analysis in amorphous hydrogenated carbon films. <i>Materials Letters</i> , 2007 , 61, 2638-2640	3.3	
19	Making Plastic Remember: Electrically Rewritable Polymer Memory Devices. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 997, 1		3
18	Effect of DC self-bias on the adhesion of diamond-like carbon deposited on metal tracks by RF-PECVD. <i>IET Science, Measurement and Technology</i> , 2006 , 153, 164-167		2
17	Determination of Density of States in Amorphous Carbon. <i>IEEE Transactions on Electron Devices</i> , 2006 , 53, 1775-1781	2.9	4
16	Memory effect in thin films of insulating polymer and C60 nanocomposites. <i>Nanotechnology</i> , 2006 , 17, 145-151	3.4	142
15	Nanoscale patterning of gold nanoparticles using an atomic force microscope. <i>Materials Science and Engineering C</i> , 2005 , 25, 33-38	8.3	14
14	Instability measurements in amorphous hydrogenated silicon using capacitance-voltage techniques. <i>Applied Physics Letters</i> , 2005 , 86, 202110	3.4	4
13	Field effect devices with metal nanoparticles integrated by LangmuirBlodgett technique for non-volatile memory applications. <i>Journal of Physics: Conference Series</i> , 2005 , 10, 57-60	0.3	5
12	Organic Memory Devices Using C60 and Insulating Polymer. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 830, 338		4
11	Use of amorphous carbon as a gate insulator for GaAs and related compounds. <i>Microelectronic Engineering</i> , 2003 , 70, 78-82	2.5	1
10	LangmuirBlodgett Film Deposition of Metallic Nanoparticles and Their Application to Electronic Memory Structures. <i>Nano Letters</i> , 2003 , 3, 533-536	11.5	247
9	Hybrid siliconOrganic nanoparticle memory device. <i>Journal of Applied Physics</i> , 2003 , 94, 5234	2.5	91
8	A reliability of different metal contacts with amorphous carbon. <i>Microelectronics Reliability</i> , 2002 , 42, 141-143	1.2	2
7	A technique to investigate inhomogeneity in materials: An arrangement of microtip and scanning electron microscope. <i>Review of Scientific Instruments</i> , 2001 , 72, 3543-3545	1.7	2
6	Schottky contacts on amorphous carbon: A more reliable approach. <i>Applied Physics Letters</i> , 2001 , 78, 1415-1417	3.4	5
5	Substrate Sensitivity of the Adhesion and Material Properties of RF-PECVD Amorphous Carbon. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 558, 149		6
4	High Reverse Breakdown a-C:H/Si Diodes Manufactured by rf-PECVD. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 593, 427		

- 3 Schottky barrier formation on r.f.-plasma enhanced chemical vapour deposited hydrogenated amorphous carbon. *Diamond and Related Materials*, **1998**, 7, 1734-1738 3.5 15
- 2 Pattern Formation by Changing V/III Ratio During Growth of GaAs by MOVPE. *Materials Research Society Symposia Proceedings*, **1995**, 417, 153
- 1 Zinc oxide nanowires for biosensor applications **1899**, 8414, 68 1