

Dhananjay Bodas

List of Publications by Year in descending order

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72
papers

2,295
citations

279798

23
h-index

214800

47
g-index

74
all docs

74
docs citations

74
times ranked

3875
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophilization and hydrophobic recovery of PDMS by oxygen plasma and chemical treatment—An SEM investigation. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 368-373.	7.8	473
2	Formation of more stable hydrophilic surfaces of PDMS by plasma and chemical treatments. <i>Microelectronic Engineering</i> , 2006, 83, 1277-1279.	2.4	331
3	Applications of cobalt ferrite nanoparticles in biomedical nanotechnology. <i>Nanomedicine</i> , 2018, 13, 1221-1238.	3.3	194
4	High-quality quantum dots for multiplexed bioimaging: A critical review. <i>Advances in Colloid and Interface Science</i> , 2020, 278, 102137.	14.7	96
5	Surface modification and aging studies of addition-curing silicone rubbers by oxygen plasma. <i>European Polymer Journal</i> , 2008, 44, 2130-2139.	5.4	85
6	Deposition of PTFE thin films by RF plasma sputtering on ~100% silicon substrates. <i>Applied Surface Science</i> , 2005, 245, 202-207.	6.1	82
7	Electrical and optical characteristics of Ni doped ZnS clusters. <i>Materials Letters</i> , 2009, 63, 767-769.	2.6	51
8	Deposition and characterization of low temperature silicon nitride films deposited by inductively coupled plasma CVD. <i>Applied Surface Science</i> , 2011, 257, 5052-5058.	6.1	50
9	In vitro and in vivo studies of a novel bacterial cellulose-based acellular bilayer nanocomposite scaffold for the repair of osteochondral defects. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6437-6459.	6.7	48
10	Synthesis of Monodisperse Chitosan Nanoparticles and in Situ Drug Loading Using Active Microreactor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22839-22847.	8.0	44
11	Chitosan nanoparticles synthesis caught in action using microdroplet reactions. <i>Scientific Reports</i> , 2016, 6, 22260.	3.3	42
12	Plasma-treated polymer as humidity sensing material—a feasibility study. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 37-40.	7.8	41
13	Structural, magnetic and optical studies of (Zn _{0.90} Co _{0.05} Ni _{0.05} O) DMS. <i>Materials Letters</i> , 2010, 64, 2269-2272.	2.6	41
14	Multiplexed Detection of Waterborne Pathogens in Circular Microfluidics. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1668-1677.	2.9	39
15	Deposition of plasma-polymerized hydroxyethyl methacrylate (HEMA) on silicon in presence of argon plasma. <i>Applied Surface Science</i> , 2005, 245, 186-190.	6.1	35
16	Fabrication of long-term hydrophilic surfaces of poly(dimethyl siloxane) using 2-hydroxy ethyl methacrylate. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 719-723.	7.8	34
17	Study of β - β^2 -phase development in spin-coated PVDF thick films. <i>Bulletin of Materials Science</i> , 2017, 40, 569-575.	1.7	31
18	Lanthanum strontium manganese oxide (LSMO) nanoparticles: a versatile platform for anticancer therapy. <i>RSC Advances</i> , 2015, 5, 60254-60263.	3.6	30

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19	Simulations of piezoelectric pressure sensor for radial artery pulse measurement. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 168, 250-253.	3.5	26
20	Direct patterning of quantum dots on structured PDMS surface. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 168-172.	7.8	25
21	Radio-frequency triggered heating and drug release using doxorubicin-loaded LSMO nanoparticles for bimodal treatment of breast cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 878-890.	5.0	25
22	Surface studies on benzophenone doped PDMS microstructures fabricated using KrF excimer laser direct write lithography. <i>Applied Surface Science</i> , 2014, 314, 292-300.	6.1	24
23	Computational fluid dynamic analysis of poly(dimethyl siloxane) magnetic actuator based micromixer. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 419-424.	7.8	24
24	Study of electrical and optical properties of Mn doped ZnS clusters. <i>Materials Letters</i> , 2009, 63, 2669-2671.	2.6	23
25	Development of immunosensor using magnetic nanoparticles and circular microchannels in PDMS. <i>Microelectronic Engineering</i> , 2014, 115, 66-69.	2.4	23
26	Nanoscale silver depositions inhibit microbial colonization and improve biocompatibility of titanium abutments. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 151-158.	5.0	23
27	A high affinity phage-displayed peptide as a recognition probe for the detection of Salmonella Typhimurium. <i>Journal of Biotechnology</i> , 2016, 231, 40-45.	3.8	22
28	A facile one-step method for cell lysis and DNA extraction of waterborne pathogens using a microchip. <i>Biosensors and Bioelectronics</i> , 2018, 99, 62-69.	10.1	22
29	Quantum dot based immunosensor using 3D circular microchannels fabricated in PDMS. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3050-3053.	10.1	20
30	Magneto-Conducting Core/Shell Nanoparticles for Biomedical Applications. <i>ChemNanoMat</i> , 2018, 4, 151-164.	2.8	19
31	Comparative study of spin coated and sputtered PMMA as an etch mask material for silicon micromachining. <i>Sensors and Actuators A: Physical</i> , 2005, 120, 582-588.	4.1	17
32	Inducing multiple functionalities in ZnS nanoparticles by doping Ni ²⁺ ions. <i>Materials Research Bulletin</i> , 2013, 48, 2259-2267.	5.2	17
33	Characterization of indium nitride films deposited by activated reactive evaporation process. <i>Thin Solid Films</i> , 2003, 444, 52-57.	1.8	15
34	Application of dendrimer-based nanosensors in immunodiagnosis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 209, 112174.	5.0	15
35	Structural characterization of sputtered PMMA in argon plasma. <i>Materials Letters</i> , 2005, 59, 2903-2907.	2.6	14
36	Magnetically active micromixer assisted synthesis of drug nanocomplexes exhibiting strong bactericidal potential. <i>Materials Science and Engineering C</i> , 2016, 68, 455-464.	7.3	14

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37	Development of nano-immunosensor with magnetic separation and electrical detection of Escherichia coli using antibody conjugated Fe ₃ O ₄ @Ppy. Nanotechnology, 2021, 32, 085603.	2.6	13
38	Characterization of silicon films deposited in presence of nitrogen plasma. Vacuum, 2002, 65, 91-100.	3.5	12
39	Hydrothermal synthesis and characterization of carbon nanospheres: a mechanistic insight. RSC Advances, 2015, 5, 59491-59494.	3.6	12
40	Development of a novel smartphone-based application for accurate and sensitive on-field hemoglobin measurement. RSC Advances, 2016, 6, 104067-104072.	3.6	12
41	Fabrication of long-term hydrophilic elastomeric surfaces via plasma induced surface cross-linking of functional monomers. Surface and Coatings Technology, 2004, 184, 6-12.	4.8	10
42	Tailor-made functional surfaces: potential elastomeric biomaterials I. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 1323-1338.	3.5	9
43	Electron beam induced surface cross-linking of functional monomers coated on silicon substrate. Materials Letters, 2006, 60, 1360-1365.	2.6	9
44	Development of low-cost poly(vinylidene fluoride) sensor for low-pressure application. Micro and Nano Letters, 2011, 6, 540.	1.3	9
45	RF sputtered polytetrafluoroethylene—a potential masking material for MEMS fabrication process. Journal of Micromechanics and Microengineering, 2005, 15, 1102-1113.	2.6	8
46	Formation of ZnS nanorods entrapped in polyacrylic acid (PAA) film. Materials Letters, 2008, 62, 2700-2703.	2.6	8
47	Creation of a stable hydrophilic poly(dimethyl siloxane) surface by the plasma-induced crosslinking of monomers. Journal of Applied Polymer Science, 2011, 120, 1426-1430.	2.6	8
48	Deposition of indium nitride films by activated reactive evaporation process—a feasibility study. Applied Surface Science, 2005, 245, 73-78.	6.1	7
49	PTFE as a masking material for MEMS fabrication. Journal of Micromechanics and Microengineering, 2005, 15, 802-806.	2.6	7
50	In situ synthesis of Au nanoparticles in 3D circular microchannels in PDMS using a simple and reliable molding method. Microelectronic Engineering, 2012, 90, 104-107.	2.4	6
51	Design and simulation of blocked blood vessel for early detection of heart diseases. , 2015, , .		6
52	Deposition of silicon films in presence of nitrogen plasma—a feasibility study. Bulletin of Materials Science, 2002, 25, 399-402.	1.7	5
53	Development of PVdF based pressure sensor for low pressure application. , 2011, , .		5
54	Assessment of an Integrative Anticancer Treatment Using an in Vitro Perfusion-Enabled 3D Breast Tumor Model. ACS Biomaterials Science and Engineering, 2018, 4, 1407-1417.	5.2	5

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55	Multiplexed bio-imaging using cadmium telluride quantum dots synthesized by mathematically derived process parameters in a continuous flow active microreactor. <i>Materials Today Bio</i> , 2021, 11, 100123.	5.5	5
56	Poly(methyl methacrylate) as masking material for microelectromechanical system (MEMS) fabrication. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2094-2098.	2.6	4
57	Room temperature magnetism and metal to semiconducting transition in dilute Fe doped Sb _{1-x} Se _x semiconducting alloy thin films. <i>Materials Research Express</i> , 2015, 2, 025902.	1.6	4
58	Benzophenone doped polydimethylsiloxane: self developable composite resist system for its use in a direct write laser lithography application. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 175301.	2.8	4
59	Dopant induced morphologies of ZnS nanoparticles. <i>Crystal Research and Technology</i> , 2012, 47, 1105-1112.	1.3	3
60	RF sputter deposition of poly(tetrafluoroethylene) films as masking materials for silicon micromachining. <i>Journal of Applied Polymer Science</i> , 2004, 91, 1183-1192.	2.6	2
61	A concave microwell array fabricated using the ommatidium of the common fruit fly for efficient cell culture. <i>RSC Advances</i> , 2016, 6, 64266-64270.	3.6	2
62	Magnetically controlled flexible valve for flow manipulation in polymer microfluidic devices. , 2012, , .		1
63	Optimization of RF sputtered PZT thin films for MEMS cantilever application. , 2012, , .		1
64	Design and simulation of microcantilevers for detection of pathogens. , 2015, , .		1
65	Geometrically Similar Rectangular Passive Micromixers and the Scaling Validity on Mixing Efficiency and Pressure Drops. <i>Strojnický Casopis</i> , 2019, 69, 69-84.	0.9	1
66	Effect of micro-impeller geometries on mixing in a continuous flow active microreactor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 283, 115843.	3.5	1
67	Capacitance-voltage characterization of electron beam induced surface cross-linked functional monomers. <i>Applied Physics Letters</i> , 2007, 90, 133501.	3.3	0
68	Effect of PZT annealing on structural changes in PZT/SiO ₂ surface and its masking behaviour to KOH/TMAH. <i>Micro and Nano Letters</i> , 2011, 6, 892.	1.3	0
69	Low cost fabrication and testing of high isolation radio frequency MEMS switches. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2012, 11, 033001.	0.9	0
70	Relative humidity sensor using plasma polymerized methyl methacrylate (PPMMA). , 2012, , .		0
71	Low cost fabrication and testing of high isolation RF MEMS switches. , 2012, , .		0
72	Cost-Effective Processing of Polymers and Application to Devices. <i>Springer Tracts in Mechanical Engineering</i> , 2014, , 229-247.	0.3	0