Tuhin Subhra Santra

List of Publications by Year
in descending order

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		361388	434170
68	1,117	20	31
papers	citations	h-index	g-index

71	71	71	713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocellulose, a versatile platform: From the delivery of active molecules to tissue engineering applications. Bioactive Materials, 2022, 9, 566-589.	15.6	78
2	Current Trends of Microfluidic Single-Cell Technologies. International Journal of Molecular Sciences, 2018, 19, 3143.	4.1	63
3	Recent Trends on Micro/Nanofluidic Single Cell Electroporation. Micromachines, 2013, 4, 333-356.	2.9	61
4	Single-cell electroporation: current trends, applications and future prospects. Journal of Micromechanics and Microengineering, 2018, 28, 123002.	2.6	54
5	Liposomal Cytarabine as Cancer Therapy: From Chemistry to Medicine. Biomolecules, 2019, 9, 773.	4.0	52
6	Characterization of diamond-like nanocomposite thin films grown by plasma enhanced chemical vapor deposition. Journal of Applied Physics, 2010, 107, .	2.5	50
7	Near-infrared nanosecond-pulsed laser-activated highly efficient intracellular delivery mediated by nano-corrugated mushroom-shaped gold-coated polystyrene nanoparticles. Nanoscale, 2020, 12, 12057-12067.	5.6	49
8	Oxygenated graphene quantum dots (GQDs) synthesized using laser ablation for long-term real-time tracking and imaging. RSC Advances, 2017, 7, 53822-53829.	3.6	43
9	Microfluidic nanomaterials: From synthesis to biomedical applications. Biomaterials, 2022, 280, 121247.	11.4	35
10	Delivery of molecules into cells using localized single cell electroporation on ITO micro-electrode based transparent chip. Biomedical Microdevices, 2012, 14, 811-817.	2.8	33
11	Infrared Pulse Laser-Activated Highly Efficient Intracellular Delivery Using Titanium Microdish Device. ACS Biomaterials Science and Engineering, 2020, 6, 5645-5652.	5.2	33
12	A Review of Single-Cell Adhesion Force Kinetics and Applications. Cells, 2021, 10, 577.	4.1	33
13	Tuning nano electric field to affect restrictive membrane area on localized single cell nano-electroporation. Applied Physics Letters, 2013, 103, .	3.3	32
14	Impact of pulse duration on localized single-cell nano-electroporation. Analyst, The, 2014, 139, 6249-6258.	3.5	32
15	Nano-localized single-cell nano-electroporation. Lab on A Chip, 2020, 20, 4194-4204.	6.0	30
16	A Single-Neuron: Current Trends and Future Prospects. Cells, 2020, 9, 1528.	4.1	28
17	Influence of flow rate on different properties of diamond-like nanocomposite thin films grown by PECVD. AIP Advances, 2012, 2, 022132.	1.3	26
18	Microfluidic Devices in Advanced Caenorhabditis elegans Research. Molecules, 2016, 21, 1006.	3.8	25

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19	Structural and tribological properties of diamond-like nanocomposite thin films. Surface and Coatings Technology, 2011, 206, 228-233.	4.8	24
20	Dielectric passivation layer as a substratum on localized single-cell electroporation. RSC Advances, 2016, 6, 10979-10986.	3.6	24
21	Pulsed laser assisted high-throughput intracellular delivery in hanging drop based three dimensional cancer spheroids. Analyst, The, 2021, 146, 4756-4766.	3.5	22
22	Physical approaches for drug delivery. , 2020, , 161-190.		18
23	Fabrication of TiO₂ microspikes for highly efficient intracellular delivery by pulse laser-assisted photoporation. RSC Advances, 2021, 11, 9336-9348.	3.6	18
24	Microfluidic mechanoporation for cellular delivery and analysis. Materials Today Bio, 2022, 13, 100193.	5.5	18
25	Micro/Nanofluidic Devices for Single Cell Analysis. Micromachines, 2014, 5, 154-157.	2.9	17
26	Additive manufacturing of Mg alloys for biomedical applications: Current status and challenges. Current Opinion in Biomedical Engineering, 2021, 18, 100276.	3.4	17
27	Electrochemical fabrication of TiO2 micro-flowers for an efficient intracellular delivery using nanosecond light pulse. Materials Chemistry and Physics, 2021, 267, 124604.	4.0	16
28	Biosynthesis of Silver and Gold Nanoparticles for Potential Biomedical Applicationsâ€"A Brief Review. Journal of Nanopharmaceutics and Drug Delivery, 2014, 2, 249-265.	0.3	16
29	Nanolocalized Single-Cell-Membrane Nanoelectroporation: For higher efficiency with high cell viability.. IEEE Nanotechnology Magazine, 2014, 8, 30-34.	1.3	14
30	Can titanium oxide nanotubes facilitate intracellular delivery by laser-assisted photoporation?. Applied Surface Science, 2021, 543, 148815.	6.1	14
31	Microfluidic Based Physical Approaches towards Single-Cell Intracellular Delivery and Analysis. Micromachines, 2021, 12, 631.	2.9	13
32	Biomedical Applications of Diamond-Like Nanocomposite Thin Films. Science of Advanced Materials, 2012, 4, 110-113.	0.7	11
33	Microfluidic platforms for single neuron analysis. Materials Today Bio, 2022, 13, 100222.	5.5	11
34	Single-Cell Analysis. Cells, 2020, 9, 1993.	4.1	10
35	Formation of nanostructures on magnesium alloy by anodization for potential biomedical applications. Materials Today Communications, 2020, 25, 101403.	1.9	10
36	Nanomaterials: An Introduction. Springer Series in Biomaterials Science and Engineering, 2021, , 1-27.	1.0	10

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37	Electroporation Based Drug Delivery and Its Applications. , 2013, , .		9
38	Electroporation for Single-Cell Analysis. Series in Bioengineering, 2016, , 55-83.	0.6	8
39	Microinjection for Single-Cell Analysis. Series in Bioengineering, 2016, , 85-129.	0.6	6
40	Scalable Parallel Manipulation of Single Cells Using Micronozzle Array Integrated with Bidirectional Electrokinetic Pumps. Micromachines, 2020, 11, 442.	2.9	6
41	Mechanoporation: Toward Single Cell Approaches. , 2018, , 1-29.		5
42	Single-cell patterning: a new frontier in bioengineering. Materials Today Chemistry, 2022, 26, 101021.	3.5	5
43	Metallic Nanoparticles for Biomedical Applications. Springer Series in Biomaterials Science and Engineering, 2021, , 29-81.	1.0	3
44	Effect of size and interparticle distance of nanoparticles on the formation of bubbles induced by nanosecond laser. Surfaces and Interfaces, 2022, 30, 101820.	3.0	3
45	Controlled and localized drug delivery using Titania nanotubes. Materials Today Communications, 2022, 32, 103843.	1.9	3
46	Uniform Transfection: Shock Wave Generation in Laser Ablation and Microcontact Printing. , 2018, , .		2
47	Light-Induced Cellular Delivery and Analysis. , 2021, , 1-29.		2
48	Editorial for the Special Issue on Micro/Nanofluidic Devices for Single Cell Analysis, Volume II. Micromachines, 2021, 12, 875.	2.9	2
49	Single Cell Analysis in Biotechnology and Systems Biology. , 2016, , .		2
50	Nanofocused electric field for localized single cell nanoelectroporation with membrane reversibility. , 2013, , .		1
51	Nanoelectroporation and controllable intracellular delivery into localized single cell with high transfection and cell viability. , 2014, , .		1
52	Nanolocalized single cell membrane nanoelectroporation. , 2014, , .		1
53	Optical transfection system using pulse laser for massively parallel localized intracellular delivery. , 2017, , .		1
54	Single-Cell Manipulation. , 2020, , 1-26.		1

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55	Light-Induced Cellular Delivery and Analysis. , 2022, , 3-30.		1
56	Intracellular Delivery using Anisotropic Gold Nanocrystals Synthesized by Microfluidic Device. , 2020, , .		1
57	Photothermal nanoblades for delivery of large-sized cargo into mammalian cells at high throughput. , 2016, , .		0
58	Gold-Polystyrene Core-Shell Hybrid Nanoparticles Mediated Highly Efficient Intracellular Delivery Using Light Pulses. , 2021, , .		0
59	Electrolysis of selectively patterned Vorticella with pneumatic microchambers and electrodes. Mechanical Engineering Journal, 2021, 8, 20-00254-20-00254.	0.4	0
60	Hydrogels: Biomaterials for Sustained and Localized Drug Delivery. Springer Series in Biomaterials Science and Engineering, 2021, , 211-252.	1.0	0
61	Regioselective Cell Poration Using Microbubble Generated by Pulsed Light. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A2-Q11.	0.0	0
62	Laser-Induced Plasma Generation Device for Massively Parallel Delivery to Cell Nuclei. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2017, 2017.8, PN-31.	0.0	0
63	Construction and evaluation of Irradiation Optical System for the Basis of Massively Parallel Intranuclear Delivery System. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2A1-L09.	0.0	0
64	Nanosecond Laser Irradiation on Cells Using Titanium Thin Film for Massively Parallel Cell Intranuclear Delivery. , 2019, , .		0
65	Mechanoporation: Toward Single Cell Approaches. , 2022, , 31-59.		0
66	Single-Cell Manipulation. , 2022, , 111-136.		0
67	Microvalve actuated by Vorticella: self-oscillating valve and improvement measures to calcium-responsive valve. Mechanical Engineering Journal, 2021, 8, 21-00199-21-00199.	0.4	0
68	Nanosecond Pulsed Laser Activated Massively Parallel Single-cell Intracellular Delivery Using Ti Micro-Dish. , 2020, , .		0