Tarun Agarwal

List of Publications by Year
in descending order

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78	2,558	230014	242451
papers	citations	27 h-index	47 g-index

78	78	78	3481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuliâ€Responsive, Toxicity, Immunogenicity, and Clinical Translation. Advanced Science, 2022, 9, e2102678.	5.6	76
2	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications. Materials, 2022, 15, 337.	1.3	29
3	Gum tragacanth modified nano-hydroxyapatite: An angiogenic- osteogenic biomaterial for bone tissue engineering. Ceramics International, 2022, 48, 14672-14683.	2.3	10
4	Electroconductive nanofibrillar biocomposite platforms for cardiac tissue engineering. , 2022, , 305-330.		1
5	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. Environmental Chemistry Letters, 2021, 19, 583-611.	8.3	112
6	3D printing of biphasic inks: beyond single-scale architectural control. Journal of Materials Chemistry C, 2021, 9, 12489-12508.	2.7	14
7	A progressive review on paper-based bacterial colorimetric detection and antimicrobial susceptibility testing. , 2021, , 687-718.		2
8	4D printing in biomedical applications: emerging trends and technologies. Journal of Materials Chemistry B, 2021, 9, 7608-7632.	2.9	65
9	Gelatinâ€“chitosan macroporous scaffolds integrated with customizable hollow channels for liver tissue engineering. , 2021, , 667-685.		0
10	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. Bio-Design and Manufacturing, 2021, 4, 641-674.	3.9	22
11	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. Advanced Science, 2021, 8, 2004014.	5.6	100
12	Engineering biomimetic intestinal topological features in 3D tissue models: retrospects and prospects. Bio-Design and Manufacturing, 2021, 4, 568-595.	3.9	9
13	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. Materials Science and Engineering C, 2021, 122, 111896.	3.8	46
14	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. Materials Science and Engineering C, 2021, 123, 112005.	3.8	29
15	Critical signaling pathways governing hepatocellular carcinoma behavior; small molecule-based approaches. Cancer Cell International, 2021, 21, 208.	1.8	32
16	Recent advances in bioprinting technologies for engineering hepatic tissue. Materials Science and Engineering C, 2021, 123, 112013.	3.8	26
17	Recent advances in bioprinting technologies for engineering cardiac tissue. Materials Science and Engineering C, 2021, 124, 112057.	3.8	35
18	Cobalt doped nano-hydroxyapatite incorporated gum tragacanth-alginate beads as angiogenic-osteogenic cell encapsulation system for mesenchymal stem cell based bone tissue engineering. International Journal of Biological Macromolecules, 2021, 179, 101-115.	3.6	30

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19	Gum polysaccharide/nanometal hybrid biocomposites in cancer diagnosis and therapy. Biotechnology Advances, 2021, 48, 107711.	6.0	26
20	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. Biomedical Engineering Advances, 2021, 1, 100005.	2.2	10
21	Antimicrobial Ionic Liquidâ€Based Materials for Biomedical Applications. Advanced Functional Materials, 2021, 31, 2104148.	7.8	116
22	Organoids: a novel modality in disease modeling. Bio-Design and Manufacturing, 2021, 4, 689-716.	3.9	33
23	Advanced therapeutic modalities in hepatocellular carcinoma: Novel insights. Journal of Cellular and Molecular Medicine, 2021, 25, 8602-8614.	1.6	15
24	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. Applied Materials Today, 2021, 24, 101107.	2.3	16
25	Electroconductive multi-functional polypyrrole composites for biomedical applications. Applied Materials Today, 2021, 24, 101117.	2.3	49
26	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732130.	2.0	11
27	Engineered herbal scaffolds for tissue repair and regeneration: Recent trends and technologies. Biomedical Engineering Advances, 2021, 2, 100015.	2.2	30
28	Antimicrobial Ionic Liquidâ€Based Materials for Biomedical Applications (Adv. Funct. Mater. 42/2021). Advanced Functional Materials, 2021, 31, 2170312.	7.8	3
29	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. Biomedical Engineering Advances, 2021, 2, 100018.	2.2	22
30	Silanization improves biocompatibility of graphene oxide. Materials Science and Engineering C, 2020, 110, 110647.	3.8	41
31	On-Chip Concentration and Patterning of Biological Cells Using Interplay of Electrical and Thermal Fields. Analytical Chemistry, 2020, 92, 838-844.	3.2	11
32	Impact of seed-transmitted endophytic bacteria on intra- and inter-cultivar plant growth promotion modulated by certain sets of metabolites in rice crop. Microbiological Research, 2020, 241, 126582.	2.5	22
33	Engineered Microneedle Patches for Controlled Release of Active Compounds: Recent Advances in Release Profile Tuning. Advanced Therapeutics, 2020, 3, 2000171.	1.6	52
34	A review on advances in graphene-derivative/polysaccharide bionanocomposites: Therapeutics, pharmacogenomics and toxicity. Carbohydrate Polymers, 2020, 250, 116952.	5.1	50
35	Paper-Based Cell Culture: Paving the Pathway for Liver Tissue Model Development on a Cellulose Paper Chip. ACS Applied Bio Materials, 2020, 3, 3956-3974.	2.3	15
36	Synthesis and characterization of PCL-DA:PEG-DA based polymeric blends grafted with SMA hydrogel as bio-degradable intrauterine contraceptive implant. Materials Science and Engineering C, 2020, 116, 111159.	3.8	14

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37	Inexpensive and Versatile Paper-Based Platform for 3D Culture of Liver Cells and Related Bioassays. ACS Applied Bio Materials, 2020, 3, 2522-2533.	2.3	15
38	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. Prosthesis, 2020, 2, 117-139.	1.1	46
39	Antibacterial and Antivirulence Properties of Phenolic-Rich Drip Brewed Coffees. , 2020, , .		0
40	Biofunctionalized cellulose paper matrix for cell delivery applications. International Journal of Biological Macromolecules, 2019, 139, 114-127.	3.6	11
41	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle. Materials Chemistry and Physics, 2019, 237, 121860.	2.0	79
42	Liver Tissue Engineering: Challenges and Opportunities. ACS Biomaterials Science and Engineering, 2019, 5, 4167-4182.	2.6	50
43	Production and characterization of multifacet exopolysaccharide from an agricultural isolate, Bacillus subtilis. Biotechnology and Applied Biochemistry, 2019, 66, 1010-1023.	1.4	8
44	Dielectrophoresis-based devices for cell patterning. , 2019, , 493-511.		3
45	Compressive stress-induced autophagy promotes invasion of HeLa cells by facilitating protein turnover in vitro. Experimental Cell Research, 2019, 381, 201-207.	1.2	13
46	Keratinocytes are mechanoresponsive to the microflowâ€induced shear stress. Cytoskeleton, 2019, 76, 209-218.	1.0	17
47	Biocompatible polyvinyl alcohol and RISUG Â® blend polymeric films with spermicidal potential. Biomedical Materials (Bristol), 2019, 14, 035017.	1.7	5
48	RISUGÂ® based improved intrauterine contraceptive device (IIUCD) could impart protective effects against development of endometrial cancer. Medical Hypotheses, 2019, 124, 67-71.	0.8	1
49	Decellularized caprine liver-derived biomimetic and pro-angiogenic scaffolds for liver tissue engineering. Materials Science and Engineering C, 2019, 98, 939-948.	3.8	40
50	Development of gelatin/carboxymethyl chitosan/nano-hydroxyapatite composite 3D macroporous scaffold for bone tissue engineering applications. Carbohydrate Polymers, 2018, 189, 115-125.	5.1	67
51	Goat tendon collagen-human fibrin hydrogel for comprehensive parametric evaluation of HUVEC microtissue-based angiogenesis. Colloids and Surfaces B: Biointerfaces, 2018, 163, 291-300.	2.5	16
52	Hemodynamic shear stress induces protective autophagy in HeLa cells through lipid raft-mediated mechanotransduction. Clinical and Experimental Metastasis, 2018, 35, 135-148.	1.7	28
53	Decellularized caprine liver extracellular matrix as a 2D substrate coating and 3D hydrogel platform for vascularized liver tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1678-e1690.	1.3	31
54	PAMAM dendrimer grafted cellulose paper scaffolds as a novel in vitro 3D liver model for drug screening applications. Colloids and Surfaces B: Biointerfaces, 2018, 172, 346-354.	2.5	19

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55	Quorum sensing inhibitory activity of the metabolome from endophytic Kwoniella sp. PY016: characterization and hybrid model-based optimization. Applied Microbiology and Biotechnology, 2018, 102, 7389-7406.	1.7	5
56	Osteoblastâ€Derived Giant Plasma Membrane Vesicles Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells. Advanced Biology, 2018, 2, 1800093.	3.0	6
57	Identification and functional analysis of a stress-responsive MAPK15 in Entamoeba invadens. Molecular and Biochemical Parasitology, 2018, 222, 34-44.	0.5	8
58	PAMAM (generation 4) incorporated gelatin 3D matrix as an improved dermal substitute for skin tissue engineering. Colloids and Surfaces B: Biointerfaces, 2017, 155, 128-134.	2.5	20
59	Gum tragacanthâ€“alginate beads as proangiogenicâ€“osteogenic cell encapsulation systems for bone tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4177-4189.	2.9	43
60	Ectopic vascularized bone formation by human mesenchymal stem cell microtissues in a biocomposite scaffold. Colloids and Surfaces B: Biointerfaces, 2017, 160, 661-670.	2.5	21
61	Molecular Mechanisms Associated With Particulate and Soluble Heteroglycan Mediated Immune Response. Journal of Cellular Biochemistry, 2016, 117, 1580-1593.	1.2	2
62	Effect of Polysaccharides on the Properties of the Mucoadhesive Poly(Vinyl Alcohol) Multicoreâ€“Shell Microparticles. Polymer-Plastics Technology and Engineering, 2016, 55, 879-888.	1.9	1
63	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. International Journal of Biological Macromolecules, 2016, 93, 1499-1506.	3.6	104
64	Alginate Bead Based Hexagonal Close Packed 3D Implant for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2016, 8, 32132-32145.	4.0	37
65	Biophysical changes of ATP binding pocket may explain loss of kinase activity in mutant DAPK3 in cancer: A molecular dynamic simulation analysis. Gene, 2016, 580, 17-25.	1.0	5
66	Cell penetrating peptides from agglutinin protein of Abrus precatorius facilitate the uptake of Imatinib mesylate. Colloids and Surfaces B: Biointerfaces, 2016, 140, 169-175.	2.5	8
67	Substrate stiffness does affect the fate of human keratinocytes. RSC Advances, 2016, 6, 3539-3551.	1.7	23
68	Development of soy lecithin based novel self-assembled emulsion hydrogels. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 250-263.	1.5	27
69	Cobalt doped proangiogenic hydroxyapatite for bone tissue engineering application. Materials Science and Engineering C, 2016, 58, 648-658.	3.8	110
70	Improving the osteogenic and angiogenic properties of synthetic hydroxyapatite by dual doping of bivalent cobalt and magnesium ion. Ceramics International, 2015, 41, 11323-11333.	2.3	90
71	Calcium alginate-carboxymethyl cellulose beads for colon-targeted drug delivery. International Journal of Biological Macromolecules, 2015, 75, 409-417.	3.6	192
72	Molecular docking and dynamic simulation evaluation of Rohinitib â€" Cantharidin based novel HSF1 inhibitors for cancer therapy. Journal of Molecular Graphics and Modelling, 2015, 61, 141-149.	1.3	15

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73	Nickel doped nanohydroxyapatite: vascular endothelial growth factor inducing biomaterial for bone tissue engineering. RSC Advances, 2015, 5, 72515-72528.	1.7	30
74	Development and characterization of gelatinâ€based hydrogels, emulsion hydrogels, and bigels: A comparative study. Journal of Applied Polymer Science, 2015, 132, .	1.3	39
75	Molecular modeling and docking study to elucidate novel chikungunya virus nsP2 protease inhibitors. Indian Journal of Pharmaceutical Sciences, 2015, 77, 453.	1.0	17
76	Molecular docking and interactions of pueraria tuberosa with vascular endothelial growth factor receptors. Indian Journal of Pharmaceutical Sciences, 2015, 77, 439.	1.0	13
77	Guar gum and sesame oil based novel bigels for controlled drug delivery. Colloids and Surfaces B: Biointerfaces, 2014, 123, 582-592.	2.5	119
78	MUTANT P21 PEPTIDES COULD ACT AS AN IMPROVED CYCLIN A INHIBITORS FOR CANCER THERAPY: AN IN SILICO VALIDATION. International Journal of Pharmacy and Pharmaceutical Sciences, 0, , 59-64.	0.3	0