

# Tapas Kumar Maiti

## List of Publications by Year in descending order

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Version: 2024-02-01

154  
papers

9,601  
citations

87886

38  
h-index

40976

93  
g-index

158  
all docs

158  
docs citations

158  
times ranked

20349  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Silk scaffolds in bone tissue engineering: An overview. <i>Acta Biomaterialia</i> , 2017, 63, 1-17.	8.3	236
3	Biocompatible mesoporous silica-coated superparamagnetic manganese ferrite nanoparticles for targeted drug delivery and MR imaging applications. <i>Journal of Colloid and Interface Science</i> , 2014, 431, 31-41.	9.4	169
4	Biofunctionalized, Phosphonate-Grafted, Ultrasmall Iron Oxide Nanoparticles for Combined Targeted Cancer Therapy and Multimodal Imaging. <i>Small</i> , 2009, 5, 2883-2893.	10.0	157
5	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104148.	14.9	116
6	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 583-611.	16.2	112
7	Cobalt doped proangiogenic hydroxyapatite for bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2016, 58, 648-658.	7.3	110
8	Monodisperse mesoporous cobalt ferrite nanoparticles: synthesis and application in targeted delivery of antitumor drugs. <i>Journal of Materials Chemistry</i> , 2011, 21, 9185.	6.7	105
9	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1499-1506.	7.5	104
10	Enzymatically crosslinked carboxymethyl-chitosan/gelatin/nano-hydroxyapatite injectable gels for in situ bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2011, 31, 1295-1304.	7.3	103
11	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. <i>Advanced Science</i> , 2021, 8, 2004014.	11.2	100
12	Role of PI3K/Akt/mTOR and MEK/ERK pathway in Concanavalin A induced autophagy in HeLa cells. <i>Chemico-Biological Interactions</i> , 2014, 210, 96-102.	4.0	96
13	Plant lectins in cancer therapeutics: Targeting apoptosis and autophagy-dependent cell death. <i>Pharmacological Research</i> , 2019, 144, 8-18.	7.1	83
14	Capillarity-driven blood plasma separation on paper-based devices. <i>Analyst, The</i> , 2015, 140, 6473-6476.	3.5	80
15	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation. <i>Advanced Science</i> , 2022, 9, e2102678.	11.2	76
16	Hydrophobically modified carboxymethyl chitosan nanoparticles targeted delivery of paclitaxel. <i>Journal of Drug Targeting</i> , 2011, 19, 104-113.	4.4	67
17	Development of gelatin/carboxymethyl chitosan/nano-hydroxyapatite composite 3D macroporous scaffold for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2018, 189, 115-125.	10.2	67
18	Design of dual stimuli responsive polymer modified magnetic nanoparticles for targeted anti-cancer drug delivery and enhanced MR imaging. <i>New Journal of Chemistry</i> , 2016, 40, 545-557.	2.8	66

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19	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7608-7632.	5.8	65
20	Antitumor effect of soybean lectin mediated through reactive oxygen species-dependent pathway. <i>Life Sciences</i> , 2014, 111, 27-35.	4.3	64
21	Structural, immunological, and antioxidant studies of $\beta$ -glucan from edible mushroom <i>Entoloma lividoalbum</i> . <i>Carbohydrate Polymers</i> , 2015, 123, 350-358.	10.2	60
22	Pectic polysaccharide from the green fruits of <i>Momordica charantia</i> (Karela): structural characterization and study of immunoenhancing and antioxidant properties. <i>Carbohydrate Research</i> , 2015, 401, 24-31.	2.3	60
23	Traction force microscopy on-chip: shear deformation of fibroblast cells. <i>Lab on A Chip</i> , 2008, 8, 1308.	6.0	53
24	Ultra-low-cost "paper-and-pencil"™ device for electrically controlled micromixing of analytes. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 375-383.	2.2	52
25	Engineered Microneedle Patches for Controlled Release of Active Compounds: Recent Advances in Release Profile Tuning. <i>Advanced Therapeutics</i> , 2020, 3, 2000171.	3.2	52
26	Non-mulberry silk fibroin grafted poly ( $\epsilon$ -caprolactone)/nano hydroxyapatite nanofibrous scaffold for dual growth factor delivery to promote bone regeneration. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 16-33.	9.4	51
27	Light triggered uncaging of hydrogen sulfide (H <sub>2</sub> S) with real-time monitoring. <i>Chemical Communications</i> , 2018, 54, 3106-3109.	4.1	50
28	Liver Tissue Engineering: Challenges and Opportunities. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4167-4182.	5.2	50
29	A review on advances in graphene-derivative/polysaccharide bionanocomposites: Therapeutics, pharmacogenomics and toxicity. <i>Carbohydrate Polymers</i> , 2020, 250, 116952.	10.2	50
30	Nano-Bio Engineered Carbon Dot-Peptide Functionalized Water Dispersible Hyperbranched Polyurethane for Bone Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2017, 17, 1600271.	4.1	49
31	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021, 24, 101117.	4.3	49
32	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. <i>Prosthesis</i> , 2020, 2, 117-139.	2.9	46
33	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 122, 111896.	7.3	46
34	In vitro and in vivo antitumor effects of Peanut agglutinin through induction of apoptotic and autophagic cell death. <i>Food and Chemical Toxicology</i> , 2014, 64, 369-377.	3.6	45
35	Induction of mitochondria-dependent apoptosis by <i>Abrus</i> agglutinin derived peptides in human cervical cancer cell. <i>Toxicology in Vitro</i> , 2008, 22, 344-351.	2.4	44
36	<i>Abrus</i> agglutinin suppresses human hepatocellular carcinoma in vitro and in vivo by inducing caspase-mediated cell death. <i>Acta Pharmacologica Sinica</i> , 2014, 35, 814-824.	6.1	44

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37	Gum tragacanthâ€œalginate beads as proangiogenicâ€œosteogenic cell encapsulation systems for bone tissue engineering. Journal of Materials Chemistry B, 2017, 5, 4177-4189.	5.8	43
38	Nanocomposites of bio-based hyperbranched polyurethane/funtionalized MWCNT as non-immunogenic, osteoconductive, biodegradable and biocompatible scaffolds in bone tissue engineering. Journal of Materials Chemistry B, 2013, 1, 4115.	5.8	41
39	Silanization improves biocompatibility of graphene oxide. Materials Science and Engineering C, 2020, 110, 110647.	7.3	41
40	Decellularized caprine liver-derived biomimetic and pro-angiogenic scaffolds for liver tissue engineering. Materials Science and Engineering C, 2019, 98, 939-948.	7.3	40
41	Folateâ€œDecorated Succinylchitosan Nanoparticles Conjugated with Doxorubicin for Targeted Drug Delivery. Macromolecular Bioscience, 2011, 11, 285-295.	4.1	39
42	Immunomodulatory and anti-tumor activities of native and heat denatured Abrus agglutinin. Immunobiology, 2007, 212, 589-599.	1.9	38
43	â€œClickableâ€œ, Trifunctional Magnetite Nanoparticles and Their Chemoselective Biofunctionalization. Bioconjugate Chemistry, 2011, 22, 1181-1193.	3.6	37
44	Alginate Bead Based Hexagonal Close Packed 3D Implant for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2016, 8, 32132-32145.	8.0	37
45	PUMA dependent mitophagy by Abrus agglutinin contributes to apoptosis through ceramide generation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 480-495.	4.1	37
46	Glassy carbon microneedlesâ€œnew transdermal drug delivery device derived from a scalable C-MEMS process. Microsystems and Nanoengineering, 2018, 4, 38.	7.0	35
47	Recent advances in bioprinting technologies for engineering cardiac tissue. Materials Science and Engineering C, 2021, 124, 112057.	7.3	35
48	Caprine (Goat) Collagen: A Potential Biomaterial for Skin Tissue Engineering. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 355-373.	3.5	33
49	A Smart Magnetically Active Nanovehicle for on-Demand Targeted Drug Delivery: Where van der Waals Force Balances the Magnetic Interaction. ACS Applied Materials & Interfaces, 2015, 7, 24229-24241.	8.0	33
50	<i>Abrus</i> agglutinin stimulates BMPâ€œdependent differentiation through autophagic degradation of Î²â€œcatenin in colon cancer stem cells. Molecular Carcinogenesis, 2018, 57, 664-677.	2.7	33
51	Organoids: a novel modality in disease modeling. Bio-Design and Manufacturing, 2021, 4, 689-716.	7.7	33
52	Protein-Guided Formation of Silver Nanoclusters and Their Assembly with Graphene Oxide as an Improved Bioimaging Agent with Reduced Toxicity. Journal of Physical Chemistry Letters, 2017, 8, 2291-2297.	4.6	32
53	Environment Activatable Nanoprodrug: Two-Step Surveillance in the Anticancer Drug Release. ACS Applied Materials & Interfaces, 2017, 9, 28180-28184.	8.0	32
54	Antitumor and proapoptotic effect of Abrus agglutinin derived peptide in Dalton's lymphoma tumor model. Chemo-Biological Interactions, 2008, 174, 11-18.	4.0	31

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55	Decellularized caprine liver extracellular matrix as a 2D substrate coating and 3D hydrogel platform for vascularized liver tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1678-e1690.	2.7	31
56	Synthesis, characterization, and in vitro biological evaluation of highly stable diversely functionalized superparamagnetic iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4173-4188.	1.9	30
57	Deacetylation of LAMP1 drives lipophagy-dependent generation of free fatty acids by <i>Abrus</i> agglutinin to promote senescence in prostate cancer. <i>Journal of Cellular Physiology</i> , 2020, 235, 2776-2791.	4.1	30
58	Engineered herbal scaffolds for tissue repair and regeneration: Recent trends and technologies. <i>Biomedical Engineering Advances</i> , 2021, 2, 100015.	3.8	30
59	Potential of non-mulberry silk protein fibroin blended and grafted poly( $\epsilon$ -caprolactone) nanofibrous matrices for in vivo bone regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 431-439.	5.0	29
60	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021, 123, 112005.	7.3	29
61	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications. <i>Materials</i> , 2022, 15, 337.	2.9	29
62	Studies on antioxidative and immunostimulating fucogalactan of the edible mushroom <i>Macrolepiota dolichaula</i> . <i>Carbohydrate Research</i> , 2015, 413, 22-29.	2.3	28
63	<i>Abrus</i> Agglutinin, a type II ribosome inactivating protein inhibits Akt/PH domain to induce endoplasmic reticulum stress mediated autophagy-dependent cell death. <i>Molecular Carcinogenesis</i> , 2017, 56, 389-401.	2.7	28
64	<i>Abrus</i> agglutinin promotes irreparable DNA damage by triggering ROS generation followed by ATM-dependent apoptosis in oral squamous cell carcinoma. <i>Molecular Carcinogenesis</i> , 2017, 56, 2400-2413.	2.7	28
65	Hemodynamic shear stress induces protective autophagy in HeLa cells through lipid raft-mediated mechanotransduction. <i>Clinical and Experimental Metastasis</i> , 2018, 35, 135-148.	3.3	28
66	Highly Luminescent Thermoresponsive Green Emitting Gold Nanoclusters for Intracellular Nanothermometry and Cellular Imaging: A Dual Function Optical Probe. <i>ACS Applied Bio Materials</i> , 2019, 2, 2078-2091.	4.6	28
67	On-chip lectin microarray for glycoprofiling of different gastritis types and gastric cancer. <i>Biomicrofluidics</i> , 2014, 8, 034107.	2.4	27
68	A partially methylated mannogalactan from hybrid mushroom pfl 1p: purification, structural characterization, and study of immunoactivation. <i>Carbohydrate Research</i> , 2014, 395, 1-8.	2.3	26
69	Recent advances in bioprinting technologies for engineering hepatic tissue. <i>Materials Science and Engineering C</i> , 2021, 123, 112013.	7.3	26
70	Gum polysaccharide/nanometal hybrid biocomposites in cancer diagnosis and therapy. <i>Biotechnology Advances</i> , 2021, 48, 107711.	11.7	26
71	Detection of total count of <i>Staphylococcus aureus</i> using anti-toxin antibody labelled gold magnetite nanocomposites: a novel tool for capture, detection and bacterial separation. <i>Journal of Materials Chemistry</i> , 2011, 21, 17273.	6.7	25
72	Unveiling the Interaction between Fatty-Acid-Modified Membrane and Hydrophilic Imidazolium-Based Ionic Liquid: Understanding the Mechanism of Ionic Liquid Cytotoxicity. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8162-8170.	2.6	25

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73	Encapsulation of vegetable organogels for controlled delivery applications. <i>Designed Monomers and Polymers</i> , 2013, 16, 366-376.	1.6	24
74	<i>Abrus</i> agglutinin is a potent anti-proliferative and anti-angiogenic agent in human breast cancer. <i>International Journal of Cancer</i> , 2016, 139, 457-466.	5.1	24
75	Growth and nutrient removal rates of <i>Spirulina platensis</i> and <i>Nostoc muscorum</i> in fish culture effluent: a laboratory-scale study. <i>Aquaculture Research</i> , 2006, 37, 1594-1597.	1.8	23
76	Substrate stiffness does affect the fate of human keratinocytes. <i>RSC Advances</i> , 2016, 6, 3539-3551.	3.6	23
77	Effect of hematocrit on blood dynamics on a compact disc platform. <i>Analyst</i> , The, 2015, 140, 1432-1437.	3.5	22
78	Coining attributes of ultra-low concentration graphene oxide and spermine: An approach for high strength, anti-microbial and osteoconductive nanohybrid scaffold for bone tissue regeneration. <i>Carbon</i> , 2019, 141, 370-389.	10.3	22
79	Impact of seed-transmitted endophytic bacteria on intra- and inter-cultivar plant growth promotion modulated by certain sets of metabolites in rice crop. <i>Microbiological Research</i> , 2020, 241, 126582.	5.3	22
80	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. <i>Bio-Design and Manufacturing</i> , 2021, 4, 641-674.	7.7	22
81	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. <i>Biomedical Engineering Advances</i> , 2021, 2, 100018.	3.8	22
82	Ectopic vascularized bone formation by human mesenchymal stem cell microtissues in a biocomposite scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 661-670.	5.0	21
83	Augmented stress-responsive characteristics of cell lines in narrow confinements. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 684.	1.3	20
84	PAMAM (generation 4) incorporated gelatin 3D matrix as an improved dermal substitute for skin tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 155, 128-134.	5.0	20
85	Development of SU-8 hollow microneedles on a silicon substrate with microfluidic interconnects for transdermal drug delivery. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 105017.	2.6	20
86	Design and Scalable Fabrication of Hollow SU-8 Microneedles for Transdermal Drug Delivery. <i>IEEE Sensors Journal</i> , 2018, 18, 5635-5644.	4.7	20
87	Magnetic particle ornamented dual stimuli responsive nanogel for controlled anticancer drug delivery. <i>New Journal of Chemistry</i> , 2019, 43, 3026-3037.	2.8	20
88	PAMAM dendrimer grafted cellulose paper scaffolds as a novel in vitro 3D liver model for drug screening applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 346-354.	5.0	19
89	Modulation of Membrane Fluidity Performed on Model Phospholipid Membrane and Live Cell Membrane: Revealing through Spatiotemporal Approaches of FLIM, FAIM, and TRFS. <i>Analytical Chemistry</i> , 2019, 91, 4337-4345.	6.5	19
90	Non-mulberry silk fibroin grafted poly( $\epsilon$ -caprolactone) nanofibrous scaffolds mineralized by electrodeposition: an optimal delivery system for growth factors to enhance bone regeneration. <i>RSC Advances</i> , 2016, 6, 26835-26855.	3.6	18

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91	Magnetic particle anchored reduction and pH responsive nanogel for enhanced intracellular drug delivery. <i>European Polymer Journal</i> , 2020, 129, 109638.	5.4	18
92	Lycopene coupled "trifoliolate"™ polyaniline nanofibers as multi-functional biomaterial. <i>Journal of Materials Chemistry</i> , 2012, 22, 15062.	6.7	17
93	<i>Abrus precatorius</i> agglutinin-derived peptides induce ROS-dependent mitochondrial apoptosis through JNK and Akt/P38/P53 pathways in HeLa cells. <i>Chemico-Biological Interactions</i> , 2014, 222, 97-105.	4.0	17
94	Prediction and validation of apoptosis through cytochrome P450 activation by benzo[a]pyrene. <i>Chemico-Biological Interactions</i> , 2014, 208, 8-17.	4.0	16
95	Immune augmentation and Dalton's Lymphoma tumor inhibition by glucans/glycans isolated from the mycelia and fruit body of <i>Pleurotus ostreatus</i> . <i>International Immunopharmacology</i> , 2015, 25, 207-217.	3.8	16
96	Goat tendon collagen-human fibrin hydrogel for comprehensive parametric evaluation of HUVEC microtissue-based angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 291-300.	5.0	16
97	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , 2021, 24, 101107.	4.3	16
98	Enhanced Cell Adhesion to Helium Plasma-Treated Polypropylene. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 1861-1874.	2.6	15
99	Molecular docking and dynamic simulation evaluation of Rohinitib " Cantharidin based novel HSF1 inhibitors for cancer therapy. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 61, 141-149.	2.4	15
100	Paper-Based Cell Culture: Paving the Pathway for Liver Tissue Model Development on a Cellulose Paper Chip. <i>ACS Applied Bio Materials</i> , 2020, 3, 3956-3974.	4.6	15
101	Inexpensive and Versatile Paper-Based Platform for 3D Culture of Liver Cells and Related Bioassays. <i>ACS Applied Bio Materials</i> , 2020, 3, 2522-2533.	4.6	15
102	Advanced therapeutic modalities in hepatocellular carcinoma: Novel insights. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 8602-8614.	3.6	15
103	Biochemical analysis and antitumour effect of <i>Abrus precatorius</i> agglutinin derived peptides in Ehrlich's ascites and B16 melanoma mice tumour model. <i>Environmental Toxicology and Pharmacology</i> , 2014, 38, 288-296.	4.0	14
104	<i>Abrus</i> agglutinin targets cancer stem-like cells by eliminating self-renewal capacity accompanied with apoptosis in oral squamous cell carcinoma. <i>Tumor Biology</i> , 2017, 39, 101042831770163.	1.8	14
105	Synthesis and characterization of PCL-DA:PEG-DA based polymeric blends grafted with SMA hydrogel as bio-degradable intrauterine contraceptive implant. <i>Materials Science and Engineering C</i> , 2020, 116, 111159.	7.3	14
106	Theoretical analysis and simulation of SU-8 microneedles for effective skin penetration and drug delivery. , 2015, , .		13
107	Haemoglobin content modulated deformation dynamics of red blood cells on a compact disc. <i>Lab on A Chip</i> , 2015, 15, 4571-4577.	6.0	13
108	Compressive stress-induced autophagy promotes invasion of HeLa cells by facilitating protein turnover in vitro. <i>Experimental Cell Research</i> , 2019, 381, 201-207.	2.6	13

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109	Abrus agglutinin inhibits oral carcinogenesis through inactivation of NRF2 signaling pathway. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1123-1132.	7.5	13
110	The role of acoustofluidics in targeted drug delivery. <i>Biomicrofluidics</i> , 2015, 9, 052609.	2.4	12
111	Groundnut oil based emulsion gels for passive and iontophoretic delivery of therapeutics. <i>Designed Monomers and Polymers</i> , 2016, 19, 297-308.	1.6	12
112	p73 induction by Abrus agglutinin facilitates Snail ubiquitination to inhibit epithelial to mesenchymal transition in oral cancer. <i>Phytomedicine</i> , 2019, 55, 179-190.	5.3	12
113	A water soluble light activated hydrogen sulfide donor induced by an excited state meta effect. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9059-9064.	2.8	12
114	Nanotailored hyaluronic acid modified methylcellulose as an injectable scaffold with enhanced physico-rheological and biological aspects. <i>Carbohydrate Polymers</i> , 2020, 237, 116146.	10.2	12
115	Generation of droplets to serpentine threads on a rotating compact-disk platform. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11
116	Microfluidics-based Low-Cost Medical Diagnostic Devices: Some Recent Developments. <i>INAE Letters</i> , 2016, 1, 59-64.	1.0	11
117	Biofunctionalized cellulose paper matrix for cell delivery applications. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 114-127.	7.5	11
118	Mechanical stress-induced autophagic response: A cancer-enabling characteristic?. <i>Seminars in Cancer Biology</i> , 2020, 66, 101-109.	9.6	11
119	On-Chip Concentration and Patterning of Biological Cells Using Interplay of Electrical and Thermal Fields. <i>Analytical Chemistry</i> , 2020, 92, 838-844.	6.5	11
120	Unveiling the Self-Assembling Behavior of 5-Fluorouracil and its <i>N,N</i> -Dimethyl Derivative: A Spectroscopic and Microscopic Approach. <i>Langmuir</i> , 2017, 33, 10978-10988.	3.5	10
121	Quinoline H <sub>2</sub> S donor decorated fluorescent carbon dots: visible light responsive H <sub>2</sub> S nanocarriers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1026-1032.	5.8	10
122	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. <i>Biomedical Engineering Advances</i> , 2021, 1, 100005.	3.8	10
123	Assessing the immunomodulatory role of heteroglycan in a tumor spheroid and macrophage co-culture model system. <i>Carbohydrate Polymers</i> , 2015, 127, 1-10.	10.2	9
124	Nanoparticle and polysaccharide conjugate: A potential candidate vaccine to improve immunological stimuli. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 1254-1264.	7.5	9
125	Synthesis of Bovine Serum Albumin Conjugated With ZnO Nanosphere for High-Speed Humidity Sensing Application. <i>IEEE Sensors Journal</i> , 2016, 16, 1510-1517.	4.7	9
126	Effect of different mineralization processes on in vitro and in vivo bone regeneration and osteoblast-macrophage cross-talk in co-culture system using dual growth factor mediated non-mulberry silk fibroin grafted poly (D,L-caprolactone) nanofibrous scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 270-281.	5.0	9

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127	Selective Self-Assembly of 5-Fluorouracil through Nonlinear Solvent Response Modulates Membrane Dynamics. <i>Langmuir</i> , 2020, 36, 2707-2719.	3.5	9
128	Engineering biomimetic intestinal topological features in 3D tissue models: retrospects and prospects. <i>Bio-Design and Manufacturing</i> , 2021, 4, 568-595.	7.7	9
129	Superparamagnetic Nanoparticles and RNAi-Mediated Gene Silencing: Evolving Class of Cancer Diagnostics and Therapeutics. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-15.	2.7	8
130	Cell penetrating peptides from agglutinin protein of <i>Abrus precatorius</i> facilitate the uptake of Imatinib mesylate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 169-175.	5.0	8
131	Promoted Osteoconduction of Polyurethane-urea Based 3D Nanohybrid Scaffold through Nanohydroxyapatite Adorned Hierarchical Titanium Phosphate. <i>ACS Applied Bio Materials</i> , 2019, 2, 3907-3925.	4.6	8
132	Staphylococcal superantigen-like proteins interact with human MAP kinase signaling protein ERK2. <i>FEBS Letters</i> , 2020, 594, 266-277.	2.8	8
133	Helium Plasma Treatment to Improve Biocompatibility and Blood Compatibility of Polycarbonate. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 2237-2255.	2.6	7
134	Formation of Blood Droplets: Influence of the Plasma Proteins. <i>ACS Omega</i> , 2018, 3, 10967-10973.	3.5	6
135	Osteoblast-Derived Giant Plasma Membrane Vesicles Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Advanced Biology</i> , 2018, 2, 1800093.	3.0	6
136	Biophysical changes of ATP binding pocket may explain loss of kinase activity in mutant DAPK3 in cancer: A molecular dynamic simulation analysis. <i>Gene</i> , 2016, 580, 17-25.	2.2	5
137	Quorum sensing inhibitory activity of the metabolome from endophytic <i>Kwoniella</i> sp. PY016: characterization and hybrid model-based optimization. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7389-7406.	3.6	5
138	Role of <i>Escherichia coli</i> endopeptidases and dd-carboxypeptidases in infection and regulation of innate immune response. <i>Microbes and Infection</i> , 2019, 21, 464-474.	1.9	5
139	Biocompatible polyvinyl alcohol and RISUG® blend polymeric films with spermicidal potential. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 035017.	3.3	5
140	Time-dependent self-assembly of magnetic particles tethered branched block copolymer for potential biomedical application. <i>Applied Surface Science</i> , 2020, 527, 146649.	6.1	5
141	Structural Studies of an Antioxidant, Immunoenhancing Polysaccharide Isolated from the Kernel of <i>Trapa bispinosa</i> Fruit. <i>Journal of Carbohydrate Chemistry</i> , 2012, 31, 686-701.	1.1	4
142	Membrane perturbation through novel cell-penetrating peptides influences intracellular accumulation of imatinib mesylate in CML cells. <i>Cell Biology and Toxicology</i> , 2018, 34, 233-245.	5.3	4
143	PBP4 and PBP5 are involved in regulating exopolysaccharide synthesis during <i>Escherichia coli</i> biofilm formation. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	1.8	4
144	Heteroglucan-dendrimer glycoconjugate: a modulated construct with augmented immune responses and signaling phenomena. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2794-2805.	2.4	3

#	ARTICLE	IF	CITATIONS
145	Antimicrobial Ionic Liquidâ€Based Materials for Biomedical Applications (Adv. Funct. Mater. 42/2021). Advanced Functional Materials, 2021, 31, 2170312.	14.9	3
146	Molecular Mechanisms Associated With Particulate and Soluble Heteroglycan Mediated Immune Response. Journal of Cellular Biochemistry, 2016, 117, 1580-1593.	2.6	2
147	Structural comparison of SU-8 microtubes fabricated by direct laser writing and UV lithography. , 2017, , .		2
148	A progressive review on paper-based bacterial colorimetric detection and antimicrobial susceptibility testing. , 2021, , 687-718.		2
149	Fluid shear stress influences invasiveness of HeLa cells through the induction of autophagy. Clinical and Experimental Metastasis, 2022, 39, 495-504.	3.3	2
150	RISUGÂ® based improved intrauterine contraceptive device (IUCD) could impart protective effects against development of endometrial cancer. Medical Hypotheses, 2019, 124, 67-71.	1.5	1
151	Mechanical Stress-Induced Autophagy: A Key Player in Cancer Metastasis. , 2020, , 171-182.		1
152	Electroconductive nanofibrillar biocomposite platforms for cardiac tissue engineering. , 2022, , 305-330.		1
153	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
154	Gelatinâ€chitosan macroporous scaffolds integrated with customizable hollow channels for liver tissue engineering. , 2021, , 667-685.		0