

# Tapas Kumar Maiti

## List of Publications by Year in descending order

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154  
papers

9,601  
citations

100601

38  
h-index

46524

93  
g-index

158  
all docs

158  
docs citations

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times ranked

22275  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation. <i>Advanced Science</i> , 2022, 9, e2102678.	5.6	76
2	Transition Metal Dichalcogenides (TMDC)-Based Nanozymes for Biosensing and Therapeutic Applications. <i>Materials</i> , 2022, 15, 337.	1.3	29
3	Electroconductive nanofibrillar biocomposite platforms for cardiac tissue engineering. , 2022, , 305-330.		1
4	Fluid shear stress influences invasiveness of HeLa cells through the induction of autophagy. <i>Clinical and Experimental Metastasis</i> , 2022, 39, 495-504.	1.7	2
5	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.	8.3	112
6	A progressive review on paper-based bacterial colorimetric detection and antimicrobial susceptibility testing. , 2021, , 687-718.		2
7	4D printing in biomedical applications: emerging trends and technologies. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7608-7632.	2.9	65
8	Gelatin-chitosan macroporous scaffolds integrated with customizable hollow channels for liver tissue engineering. , 2021, , 667-685.		0
9	Recent advances in chemically defined and tunable hydrogel platforms for organoid culture. <i>Bio-Design and Manufacturing</i> , 2021, 4, 641-674.	3.9	22
10	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. <i>Advanced Science</i> , 2021, 8, 2004014.	5.6	100
11	Engineering biomimetic intestinal topological features in 3D tissue models: retrospects and prospects. <i>Bio-Design and Manufacturing</i> , 2021, 4, 568-595.	3.9	9
12	PBP4 and PBP5 are involved in regulating exopolysaccharide synthesis during <i>Escherichia coli</i> biofilm formation. <i>Microbiology (United Kingdom)</i> , 2021, 167, .	0.7	4
13	Oxygen releasing materials: Towards addressing the hypoxia-related issues in tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 122, 111896.	3.8	46
14	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021, 123, 112005.	3.8	29
15	Recent advances in bioprinting technologies for engineering hepatic tissue. <i>Materials Science and Engineering C</i> , 2021, 123, 112013.	3.8	26
16	Recent advances in bioprinting technologies for engineering cardiac tissue. <i>Materials Science and Engineering C</i> , 2021, 124, 112057.	3.8	35
17	Gum polysaccharide/nanometal hybrid biocomposites in cancer diagnosis and therapy. <i>Biotechnology Advances</i> , 2021, 48, 107711.	6.0	26
18	Recent advances in tissue engineering and anticancer modalities with photosynthetic microorganisms as potent oxygen generators. <i>Biomedical Engineering Advances</i> , 2021, 1, 100005.	2.2	10

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19	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104148.	7.8	116
20	Organoids: a novel modality in disease modeling. <i>Bio-Design and Manufacturing</i> , 2021, 4, 689-716.	3.9	33
21	Advanced therapeutic modalities in hepatocellular carcinoma: Novel insights. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 8602-8614.	1.6	15
22	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , 2021, 24, 101107.	2.3	16
23	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021, 24, 101117.	2.3	49
24	Engineered herbal scaffolds for tissue repair and regeneration: Recent trends and technologies. <i>Biomedical Engineering Advances</i> , 2021, 2, 100015.	2.2	30
25	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications ( <i>Adv. Funct. Mater.</i> 42/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170312.	7.8	3
26	Extrusion 3D printing with Pectin-based ink formulations: Recent trends in tissue engineering and food manufacturing. <i>Biomedical Engineering Advances</i> , 2021, 2, 100018.	2.2	22
27	Mechanical stress-induced autophagic response: A cancer-enabling characteristic?. <i>Seminars in Cancer Biology</i> , 2020, 66, 101-109.	4.3	11
28	Staphylococcal superantigen-like proteins interact with human MAP kinase signaling protein ERK2. <i>FEBS Letters</i> , 2020, 594, 266-277.	1.3	8
29	Abrus agglutinin inhibits oral carcinogenesis through inactivation of NRF2 signaling pathway. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1123-1132.	3.6	13
30	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.	2.0	30
31	Silanization improves biocompatibility of graphene oxide. <i>Materials Science and Engineering C</i> , 2020, 110, 110647.	3.8	41
32	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.	2.9	10
33	On-Chip Concentration and Patterning of Biological Cells Using Interplay of Electrical and Thermal Fields. <i>Analytical Chemistry</i> , 2020, 92, 838-844.	3.2	11
34	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.	2.5	22
35	Engineered Microneedle Patches for Controlled Release of Active Compounds: Recent Advances in Release Profile Tuning. <i>Advanced Therapeutics</i> , 2020, 3, 2000171.	1.6	52
36	A review on advances in graphene-derivative/polysaccharide bionanocomposites: Therapeutics, pharmacogenomics and toxicity. <i>Carbohydrate Polymers</i> , 2020, 250, 116952.	5.1	50

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37	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.	2.3	15
38	Time-dependent self-assembly of magnetic particles tethered branched block copolymer for potential biomedical application. <i>Applied Surface Science</i> , 2020, 527, 146649.	3.1	5
39	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.	3.8	14
40	Nanotailored hyaluronic acid modified methylcellulose as an injectable scaffold with enhanced physico-rheological and biological aspects. <i>Carbohydrate Polymers</i> , 2020, 237, 116146.	5.1	12
41	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.	2.3	15
42	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. <i>Prosthesis</i> , 2020, 2, 117-139.	1.1	46
43	Selective Self-Assembly of 5-Fluorouracil through Nonlinear Solvent Response Modulates Membrane Dynamics. <i>Langmuir</i> , 2020, 36, 2707-2719.	1.6	9
44	Magnetic particle anchored reduction and pH responsive nanogel for enhanced intracellular drug delivery. <i>European Polymer Journal</i> , 2020, 129, 109638.	2.6	18
45	Mechanical Stress-Induced Autophagy: A Key Player in Cancer Metastasis. , 2020, , 171-182.		1
46	p73 induction by Abrus agglutinin facilitates Snail ubiquitination to inhibit epithelial to mesenchymal transition in oral cancer. <i>Phytomedicine</i> , 2019, 55, 179-190.	2.3	12
47	Biofunctionalized cellulose paper matrix for cell delivery applications. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 114-127.	3.6	11
48	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.	2.3	8
49	Liver Tissue Engineering: Challenges and Opportunities. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4167-4182.	2.6	50
50	Magnetic particle ornamented dual stimuli responsive nanogel for controlled anticancer drug delivery. <i>New Journal of Chemistry</i> , 2019, 43, 3026-3037.	1.4	20
51	Compressive stress-induced autophagy promotes invasion of HeLa cells by facilitating protein turnover in vitro. <i>Experimental Cell Research</i> , 2019, 381, 201-207.	1.2	13
52	Role of Escherichia coli endopeptidases and dd-carboxypeptidases in infection and regulation of innate immune response. <i>Microbes and Infection</i> , 2019, 21, 464-474.	1.0	5
53	Highly Luminescent Thermo-responsive 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.	2.3	28
54	Plant lectins in cancer therapeutics: Targeting apoptosis and autophagy-dependent cell death. <i>Pharmacological Research</i> , 2019, 144, 8-18.	3.1	83

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55	Biocompatible polyvinyl alcohol and RISUG® blend polymeric films with spermicidal potential. <i>Biomedical Materials</i> (Bristol), 2019, 14, 035017.	1.7	5
56	RISUG® based improved intrauterine contraceptive device (IUCD) could impart protective effects against development of endometrial cancer. <i>Medical Hypotheses</i> , 2019, 124, 67-71.	0.8	1
57	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.	3.2	19
58	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.	1.5	12
59	Decellularized caprine liver-derived biomimetic and pro-angiogenic scaffolds for liver tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 98, 939-948.	3.8	40
60	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.	5.4	22
61	<i>Abrus</i> agglutinin stimulates BMP-dependent differentiation through autophagic degradation of $\beta$ -catenin in colon cancer stem cells. <i>Molecular Carcinogenesis</i> , 2018, 57, 664-677.	1.3	33
62	Light triggered uncaging of hydrogen sulfide (H <sub>2</sub> S) with real-time monitoring. <i>Chemical Communications</i> , 2018, 54, 3106-3109.	2.2	50
63	Development of gelatin/carboxymethyl chitosan/nano-hydroxyapatite composite 3D macroporous scaffold for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2018, 189, 115-125.	5.1	67
64	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.	2.5	16
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.	1.7	28
66	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.	1.3	31
67	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.	2.4	4
68	PUMA dependent mitophagy by <i>Abrus</i> agglutinin contributes to apoptosis through ceramide generation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 480-495.	1.9	37
69	Glassy carbon microneedles—new transdermal drug delivery device derived from a scalable C-MEMS process. <i>Microsystems and Nanoengineering</i> , 2018, 4, 38.	3.4	35
70	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.	2.5	19
71	Formation of Blood Droplets: Influence of the Plasma Proteins. <i>ACS Omega</i> , 2018, 3, 10967-10973.	1.6	6
72	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.	1.7	5

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73	Osteoblast-Derived Giant Plasma Membrane Vesicles Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Advanced Biology</i> , 2018, 2, 1800093.	3.0	6
74	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.	1.5	20
75	Design and Scalable Fabrication of Hollow SU-8 Microneedles for Transdermal Drug Delivery. <i>IEEE Sensors Journal</i> , 2018, 18, 5635-5644.	2.4	20
76	<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.	1.3	28
77	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.	2.5	20
78	Gum tragacanth-alginate beads as proangiogenic osteogenic cell encapsulation systems for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4177-4189.	2.9	43
79	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.	2.5	9
80	<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.	0.8	14
81	Protein-Guided Formation of Silver Nanoclusters and Their Assembly with Graphene Oxide as an Improved Bioimaging Agent with Reduced Toxicity. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2291-2297.	2.1	32
82	<i>Abrus</i> agglutinin promotes irreparable DNA damage by triggering ROS generation followed by ATM-p73 mediated apoptosis in oral squamous cell carcinoma. <i>Molecular Carcinogenesis</i> , 2017, 56, 2400-2413.	1.3	28
83	Silk scaffolds in bone tissue engineering: An overview. <i>Acta Biomaterialia</i> , 2017, 63, 1-17.	4.1	236
84	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.	2.5	21
85	Unveiling the Self-Assembling Behavior of 5-Fluorouracil and its N,N-Dimethyl Derivative: A Spectroscopic and Microscopic Approach. <i>Langmuir</i> , 2017, 33, 10978-10988.	1.6	10
86	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.	1.2	25
87	Environment Activatable Nanoprodrug: Two-Step Surveillance in the Anticancer Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28180-28184.	4.0	32
88	Nano-Bio Engineered Carbon Dot-Peptide Functionalized Water Dispersible Hyperbranched Polyurethane for Bone Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2017, 17, 1600271.	2.1	49
89	Structural comparison of SU-8 microtubes fabricated by direct laser writing and UV lithography. , 2017, , .		2
90	Molecular Mechanisms Associated With Particulate and Soluble Heteroglycan Mediated Immune Response. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 1580-1593.	1.2	2

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91	<i>Abrus</i> agglutinin is a potent anti-proliferative and anti-angiogenic agent in human breast cancer. International Journal of Cancer, 2016, 139, 457-466.	2.3	24
92	Synthesis of Bovine Serum Albumin Conjugated With ZnO Nanosphere for High-Speed Humidity Sensing Application. IEEE Sensors Journal, 2016, 16, 1510-1517.	2.4	9
93	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. International Journal of Biological Macromolecules, 2016, 93, 1499-1506.	3.6	104
94	Microfluidics-based Low-Cost Medical Diagnostic Devices: Some Recent Developments. INAE Letters, 2016, 1, 59-64.	1.0	11
95	Alginate Bead Based Hexagonal Close Packed 3D Implant for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2016, 8, 32132-32145.	4.0	37
96	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
97	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
98	Potential of non-mulberry silk protein fibroin blended and grafted poly( $\epsilon$ -caprolactone) nanofibrous matrices for in vivo bone regeneration. Colloids and Surfaces B: Biointerfaces, 2016, 143, 431-439.	2.5	29
99	Non-mulberry silk fibroin grafted poly( $\epsilon$ -caprolactone)/nano hydroxyapatite nanofibrous scaffold for dual growth factor delivery to promote bone regeneration. Journal of Colloid and Interface Science, 2016, 472, 16-33.	5.0	51
100	Cell penetrating peptides from agglutinin protein of <i>Abrus precatorius</i> facilitate the uptake of Imatinib mesylate. Colloids and Surfaces B: Biointerfaces, 2016, 140, 169-175.	2.5	8
101	Groundnut oil based emulsion gels for passive and iontophoretic delivery of therapeutics. Designed Monomers and Polymers, 2016, 19, 297-308.	0.7	12
102	Non-mulberry silk fibroin grafted poly( $\mu$ -caprolactone) nanofibrous scaffolds mineralized by electrodeposition: an optimal delivery system for growth factors to enhance bone regeneration. RSC Advances, 2016, 6, 26835-26855.	1.7	18
103	Substrate stiffness does affect the fate of human keratinocytes. RSC Advances, 2016, 6, 3539-3551.	1.7	23
104	Design of dual stimuli responsive polymer modified magnetic nanoparticles for targeted anti-cancer drug delivery and enhanced MR imaging. New Journal of Chemistry, 2016, 40, 545-557.	1.4	66
105	Cobalt doped proangiogenic hydroxyapatite for bone tissue engineering application. Materials Science and Engineering C, 2016, 58, 648-658.	3.8	110
106	Generation of droplets to serpentine threads on a rotating compact-disk platform. Applied Physics Letters, 2015, 107, .	1.5	11
107	Studies on antioxidative and immunostimulating fucogalactan of the edible mushroom <i>Macrolepiota dolichaula</i> . Carbohydrate Research, 2015, 413, 22-29.	1.1	28
108	Theoretical analysis and simulation of SU-8 microneedles for effective skin penetration and drug delivery. , 2015, , .		13

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109	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.	1.7	16
110	Structural, immunological, and antioxidant studies of $\beta$ -glucan from edible mushroom <i>Entoloma lividoalbum</i> . <i>Carbohydrate Polymers</i> , 2015, 123, 350-358.	5.1	60
111	Ultra-low-cost "paper-and-pencil"™ device for electrically controlled micromixing of analytes. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 375-383.	1.0	52
112	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.	1.3	15
113	Effect of hematocrit on blood dynamics on a compact disc platform. <i>Analyst, The</i> , 2015, 140, 1432-1437.	1.7	22
114	Assessing the immunomodulatory role of heteroglycan in a tumor spheroid and macrophage co-culture model system. <i>Carbohydrate Polymers</i> , 2015, 127, 1-10.	5.1	9
115	Capillarity-driven blood plasma separation on paper-based devices. <i>Analyst, The</i> , 2015, 140, 6473-6476.	1.7	80
116	A Smart Magnetically Active Nanovehicle for on-Demand Targeted Drug Delivery: Where van der Waals Force Balances the Magnetic Interaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24229-24241.	4.0	33
117	Haemoglobin content modulated deformation dynamics of red blood cells on a compact disc. <i>Lab on A Chip</i> , 2015, 15, 4571-4577.	3.1	13
118	The role of acoustofluidics in targeted drug delivery. <i>Biomicrofluidics</i> , 2015, 9, 052609.	1.2	12
119	Nanoparticle and polysaccharide conjugate: A potential candidate vaccine to improve immunological stimuli. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 1254-1264.	3.6	9
120	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.	1.1	60
121	<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.	2.8	44
122	On-chip lectin microarray for glycoprofiling of different gastritis types and gastric cancer. <i>Biomicrofluidics</i> , 2014, 8, 034107.	1.2	27
123	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.	1.8	45
124	Prediction and validation of apoptosis through cytochrome P450 activation by benzo[a]pyrene. <i>Chemico-Biological Interactions</i> , 2014, 208, 8-17.	1.7	16
125	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.	1.7	96
126	<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.	1.7	17



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127	Biochemical analysis and antitumour effect of Abrus precatorius agglutinin derived peptides in Ehrlich's ascites and B16 melanoma mice tumour model. <i>Environmental Toxicology and Pharmacology</i> , 2014, 38, 288-296.	2.0	14
128	A partially methylated mannogalactan from hybrid mushroom pfl 1p: purification, structural characterization, and study of immunoactivation. <i>Carbohydrate Research</i> , 2014, 395, 1-8.	1.1	26
129	Antitumor effect of soybean lectin mediated through reactive oxygen species-dependent pathway. <i>Life Sciences</i> , 2014, 111, 27-35.	2.0	64
130	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.	1.1	3
131	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.	5.0	169
132	Nanocomposites of bio-based hyperbranched polyurethane/functionalized MWCNT as non-immunogenic, osteoconductive, biodegradable and biocompatible scaffolds in bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4115.	2.9	41
133	Encapsulation of vegetable organogels for controlled delivery applications. <i>Designed Monomers and Polymers</i> , 2013, 16, 366-376.	0.7	24
134	Superparamagnetic Nanoparticles and RNAi-Mediated Gene Silencing: Evolving Class of Cancer Diagnostics and Therapeutics. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-15.	1.5	8
135	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.	0.4	4
136	Caprine (Goat) Collagen: A Potential Biomaterial for Skin Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 355-373.	1.9	33
137	Lycopene coupled <i>trifoliata</i> ™ polyaniline nanofibers as multi-functional biomaterial. <i>Journal of Materials Chemistry</i> , 2012, 22, 15062.	6.7	17
138	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
139	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
140	Hydrophobically modified carboxymethyl chitosan nanoparticles targeted delivery of paclitaxel. <i>Journal of Drug Targeting</i> , 2011, 19, 104-113.	2.1	67
141	Trifunctional Magnetite Nanoparticles and Their Chemoselective Biofunctionalization. <i>Bioconjugate Chemistry</i> , 2011, 22, 1181-1193.	1.8	37
142	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.	3.8	103
143	Augmented stress-responsive characteristics of cell lines in narrow confinements. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 684.	0.6	20
144	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.	0.8	30

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145	Folateâ€Decorated Succinylchitosan Nanoparticles Conjugated with Doxorubicin for Targeted Drug Delivery. <i>Macromolecular Bioscience</i> , 2011, 11, 285-295.	2.1	39
146	Helium Plasma Treatment to Improve Biocompatibility and Blood Compatibility of Polycarbonate. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 2237-2255.	1.4	7
147	Biofunctionalized, Phosphonateâ€Grafted, Ultrasmall Iron Oxide Nanoparticles for Combined Targeted Cancer Therapy and Multimodal Imaging. <i>Small</i> , 2009, 5, 2883-2893.	5.2	157
148	Enhanced Cell Adhesion to Helium Plasma-Treated Polypropylene. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 1861-1874.	1.4	15
149	Antitumor and proapoptotic effect of Abrus agglutinin derived peptide in Dalton's lymphoma tumor model. <i>Chemico-Biological Interactions</i> , 2008, 174, 11-18.	1.7	31
150	Induction of mitochondria-dependent apoptosis by Abrus agglutinin derived peptides in human cervical cancer cell. <i>Toxicology in Vitro</i> , 2008, 22, 344-351.	1.1	44
151	Traction force microscopy on-chip: shear deformation of fibroblast cells. <i>Lab on A Chip</i> , 2008, 8, 1308.	3.1	53
152	Immunomodulatory and anti-tumor activities of native and heat denatured Abrus agglutinin. <i>Immunobiology</i> , 2007, 212, 589-599.	0.8	38
153	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.	0.9	23
154	MUTANT P21 PEPTIDES COULD ACT AS AN IMPROVED CYCLIN A INHIBITORS FOR CANCER THERAPY: AN IN SILICO VALIDATION. <i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 0, , 59-64.	0.3	0