

Sachin Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,599
citations

331259

21
h-index

315357

38
g-index

62
all docs

62
docs citations

62
times ranked

2792
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Functionalization of Graphene To Augment Stem Cell Osteogenesis and Inhibit Biofilm Formation on Polymer Composites for Orthopedic Applications. ACS Applied Materials & Interfaces, 2015, 7, 3237-3252.	4.0	170
2	Comprehensive Review on the Use of Graphene-Based Substrates for Regenerative Medicine and Biomedical Devices. ACS Applied Materials & Interfaces, 2016, 8, 26431-26457.	4.0	141
3	Engineering a multi-biofunctional composite using poly(ethylenimine) decorated graphene oxide for bone tissue regeneration. Nanoscale, 2016, 8, 6820-6836.	2.8	107
4	Strontium eluting graphene hybrid nanoparticles augment osteogenesis in a 3D tissue scaffold. Nanoscale, 2015, 7, 2023-2033.	2.8	91
5	Linking graphene-based material physicochemical properties with molecular adsorption, structure and cell fate. Communications Chemistry, 2020, 3, .	2.0	87
6	Multifunctional biodegradable polymer nanocomposite incorporating graphene-silver hybrid for biomedical applications. Materials and Design, 2016, 108, 319-332.	3.3	81
7	Role of non-coding RNA networks in leukemia progression, metastasis and drug resistance. Molecular Cancer, 2020, 19, 57.	7.9	68
8	Amine-functionalized multiwall carbon nanotubes impart osteoinductive and bactericidal properties in poly(μ -caprolactone) composites. RSC Advances, 2014, 4, 19086-19098.	1.7	64
9	Multi-biofunctional polymer graphene composite for bone tissue regeneration that elutes copper ions to impart angiogenic, osteogenic and bactericidal properties. Colloids and Surfaces B: Biointerfaces, 2017, 159, 293-302.	2.5	61
10	3D scaffold alters cellular response to graphene in a polymer composite for orthopedic applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 732-749.	1.6	57
11	Type I Collagen from Jellyfish <i>Catostylus mosaicus</i> for Biomaterial Applications. ACS Biomaterials Science and Engineering, 2018, 4, 2115-2125.	2.6	52
12	Efficacy of circulating plasma DNA as a diagnostic tool for advanced non-small cell lung cancer and its predictive utility for survival and response to chemotherapy. Lung Cancer, 2010, 70, 211-217.	0.9	40
13	Identification of differentially expressed circulating serum microRNA for the diagnosis and prognosis of Indian non-small cell lung cancer patients. Current Problems in Cancer, 2020, 44, 100540.	1.0	39
14	Epigenetic regulators of programmed death-ligand 1 expression in human cancers. Translational Research, 2018, 202, 129-145.	2.2	36
15	Nanographenes: Ultrastable, Switchable, and Bright Probes for Super-Resolution Microscopy. Angewandte Chemie - International Edition, 2020, 59, 496-502.	7.2	35
16	Enzymatically degradable EMI shielding materials derived from PCL based nanocomposites. RSC Advances, 2015, 5, 17716-17725.	1.7	32
17	Urine miRNA signature as a potential non-invasive diagnostic and prognostic biomarker in cervical cancer. Scientific Reports, 2021, 11, 10323.	1.6	31
18	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation. Nanotechnology, 2017, 28, 025201.	1.3	29

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19	Association of cutaneous adverse drug reactions due to antiepileptic drugs with HLA alleles in a North Indian population. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2019, 66, 99-103.	0.9	28
20	Unimpeded permeation of water through biocidal graphene oxide sheets anchored on to 3D porous polyolefinic membranes. <i>Nanoscale</i> , 2016, 8, 8048-8057.	2.8	27
21	Quantifying the Vasculogenic Potential of Induced Pluripotent Stem Cell-Derived Endothelial Progenitors in Collagen Hydrogels. <i>Tissue Engineering - Part A</i> , 2019, 25, 746-758.	1.6	27
22	Plasma Nucleosome Levels Might Predict Response to Therapy in Patients With Advanced Non-Small-Cell Lung Cancer. <i>Clinical Lung Cancer</i> , 2010, 11, 36-44.	1.1	24
23	Role of microRNAs in regulating cell proliferation, metastasis and chemoresistance and their applications as cancer biomarkers in small cell lung cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188552.	3.3	23
24	Facile synthesis of vanadia nanoparticles and assessment of antibacterial activity and cytotoxicity. <i>Materials Technology</i> , 2016, 31, 562-573.	1.5	22
25	PARP-1 inhibitor modulate β -catenin signaling to enhance cisplatin sensitivity in cancer cervix. <i>Oncotarget</i> , 2019, 10, 4262-4275.	0.8	20
26	Evaluation of adverse drug reaction profile of antiepileptic drugs in persons with epilepsy: A cross-sectional study. <i>Epilepsy and Behavior</i> , 2020, 105, 106947.	0.9	20
27	Differential expression of circulating serum miR-1249-3p, miR-3195, and miR-3692-3p in non-small cell lung cancer. <i>Human Cell</i> , 2020, 33, 839-849.	1.2	16
28	Probing fibrin's molecular response to shear and tensile deformation with coherent Raman microscopy. <i>Acta Biomaterialia</i> , 2021, 121, 383-392.	4.1	16
29	Molecular signature of postmortem lung tissue from COVID-19 patients suggests distinct trajectories driving mortality. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	1.2	14
30	Effect of organically modified clay on mechanical properties, cytotoxicity and bactericidal properties of poly(μ -caprolactone) nanocomposites. <i>Materials Research Express</i> , 2014, 1, 045302.	0.8	12
31	Phototunable interpenetrating polymer network hydrogels to stimulate the vasculogenesis of stem cell-derived endothelial progenitors. <i>Acta Biomaterialia</i> , 2021, 122, 133-144.	4.1	12
32	Molecular Control of Interfacial Fibronectin Structure on Graphene Oxide Steers Cell Fate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2346-2359.	4.0	12
33	Quantitative Mapping of Triacylglycerol Chain Length and Saturation Using Broadband CARS Microscopy. <i>Biophysical Journal</i> , 2019, 116, 2346-2355.	0.2	11
34	Efficacy of Plasma TGF- β 1 Level in Predicting Therapeutic Efficacy and Prognosis in Patients with Advanced Non-Small Cell Lung Cancer. <i>Cancer Investigation</i> , 2011, 29, 202-207.	0.6	10
35	L-Selectin expression is associated with inflammatory microenvironment and favourable prognosis in breast cancer. <i>3 Biotech</i> , 2021, 11, 38.	1.1	9
36	Structural control of fibrin bioactivity by mechanical deformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	9

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37	Seizure recurrence risk in persons with epilepsy undergoing antiepileptic drug tapering. <i>Acta Neurologica Scandinavica</i> , 2020, 141, 65-76.	1.0	8
38	Tension Causes Unfolding of Intracellular Vimentin Intermediate Filaments. <i>Advanced Biology</i> , 2020, 4, e2000111.	3.0	7
39	Cohort Profile: The LoCARPona population-based prospective cohort study in middle-aged and older adults in India. <i>International Journal of Epidemiology</i> , 2022, 51, 29-30m.	0.9	7
40	Biological functions of long noncoding RNAs and circular RNAs in small-cell lung cancer. <i>Epigenomics</i> , 2020, 12, 1751-1763.	1.0	6
41	Effect of ambient temperature on respiratory tract cells exposed to SARS-CoV-2 viral mimicking nanospheres – An experimental study. <i>Biointerphases</i> , 2021, 16, 011006.	0.6	5
42	Utility of plasma tumour necrosis factor- α and transforming growth factor- β 1 as predictors of survival and treatment outcome in advanced non-small cell lung carcinoma. <i>Biomarkers</i> , 2010, 15, 446-453.	0.9	4
43	Nanographene: ultrastabile, schaltbare und helle Sonden für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2020, 132, 504-510.	1.6	4
44	Correlating Amino Acid Interaction with Graphene-Based Materials Regulating Cell Function. <i>Journal of the Indian Institute of Science</i> , 2022, 102, 639-651.	0.9	4
45	Dysregulation of miRNA expression and their prognostic significance in paediatric cytogenetically normal acute myeloid leukaemia. <i>British Journal of Haematology</i> , 2020, 188, e90-e94.	1.2	3
46	Diagnostic & prognostic role of microRNAs in paediatric acute myeloid leukaemia. <i>Indian Journal of Medical Research</i> , 2016, 144, 807.	0.4	3
47	The drug ketamine: a double edged sword for mental health professionals. <i>Journal of Substance Use</i> , 2016, 21, 341-343.	0.3	2
48	A Randomised Study To Compare Palonosetron With Ondansetron for Prophylaxis of Postoperative Nausea and Vomiting (PONV) Following Laparoscopic Gynecological Surgeries. <i>Cureus</i> , 2022, 14, e23615.	0.2	1
49	Biomechanical Dependence of SARS-CoV-2 Infections. <i>ACS Applied Bio Materials</i> , 2022, 5, 2307-2315.	2.3	1
50	Abstraktbild: Nanographene: ultrastabile, schaltbare und helle Sonden für die hochauflösende Mikroskopie (Angew. Chem. 1/2020). <i>Angewandte Chemie</i> , 2020, 132, 516-516.	1.6	0
51	Evaluation of the programmed death-ligand 1 mRNA expression and immunopositivity and their correlation with survival outcomes in Indian lung cancer patients. <i>Human Cell</i> , 2021, , 1.	1.2	0
52	Antiepileptic-drug tapering and seizure recurrence: Correlation with serum drug levels and biomarkers in persons with epilepsy. <i>Indian Journal of Pharmacology</i> , 2022, 54, 24.	0.4	0