Gopal Chakrabarti

List of Publications by Year
in descending order

50 papers	6,354 citations	218677 26 h-index	197818 49 g-index
54 all docs	54 docs citations	54 times ranked	15826 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	miR-17-5p Downregulation Contributes to Paclitaxel Resistance of Lung Cancer Cells through Altering Beclin1 Expression. PLoS ONE, 2014, 9, e95716.	2.5	135
3	Unprecedented inhibition of tubulin polymerization directed by gold nanoparticles inducing cell cycle arrest and apoptosis. Nanoscale, 2013, 5, 4476.	5.6	95
4	miR-16 targets Bcl-2 in paclitaxel-resistant lung cancer cells and overexpression of miR-16 along with miR-17 causes unprecedented sensitivity by simultaneously modulating autophagy and apoptosis. Cellular Signalling, 2015, 27, 189-203.	3.6	92
5	Inhibition of autophagy by chloroquine potentiates synergistically anti-cancer property of artemisinin by promoting ROS dependent apoptosis. Biochimie, 2014, 107, 338-349.	2.6	81
6	Apigenin shows synergistic anticancer activity with curcumin by binding at different sites of tubulin. Biochimie, 2013, 95, 1297-1309.	2.6	77
7	Suppression of Microtubule Dynamic Instability and Treadmilling by Deuterium Oxide. Biochemistry, 2000, 39, 5075-5081.	2.5	73
8	The Natural Naphthoquinone Plumbagin Exhibits Antiproliferative Activity and Disrupts the Microtubule Network through Tubulin Binding. Biochemistry, 2008, 47, 7838-7845.	2.5	69
9	The microtubule depolymerizing agent naphthazarin induces both apoptosis and autophagy in A549 lung cancer cells. Apoptosis: an International Journal on Programmed Cell Death, 2011, 16, 924-939.	4.9	68
10	Aqueous extract of ginger shows antiproliferative activity through disruption of microtubule network of cancer cells. Food and Chemical Toxicology, 2010, 48, 2872-2880.	3.6	66
11	Autophagy inhibition with chloroquine reverts paclitaxel resistance and attenuates metastatic potential in human nonsmall lung adenocarcinoma A549 cells via ROS mediated modulation of Î²-catenin pathway. Apoptosis: an International Journal on Programmed Cell Death, 2019, 24, 414-433.	4.9	61
12	1,4-Benzoquinone (PBQ) Induced Toxicity in Lung Epithelial Cells Is Mediated by the Disruption of the Microtubule Network and Activation of Caspase-3. Chemical Research in Toxicology, 2010, 23, 1054-1066.	3.3	51
13	Development of Novel Bis(indolyl)-hydrazideâ€“Hydrazone Derivatives as Potent Microtubule-Targeting Cytotoxic Agents against A549 Lung Cancer Cells. Biochemistry, 2016, 55, 3020-3035.	2.5	50
14	Thermodynamics of Colchicinoid-Tubulin Interactions. Journal of Biological Chemistry, 1996, 271, 2897-2901.	3.4	46
15	Vitamin K3 Disrupts the Microtubule Networks by Binding to Tubulin: A Novel Mechanism of Its Antiproliferative Activity. Biochemistry, 2009, 48, 6963-6974.	2.5	43
16	Genistein Arrests Cell Cycle Progression of A549 Cells at the G2/M Phase and Depolymerizes Interphase Microtubules through Binding to a Unique Site of Tubulin. Biochemistry, 2010, 49, 1702-1712.	2.5	43
17	Metformin exhibited anticancer activity by lowering cellular cholesterol content in breast cancer cells. PLoS ONE, 2019, 14, e0209435.	2.5	39
18	Thymoquinone inhibits microtubule polymerization by tubulin binding and causes mitotic arrest following apoptosis in A549 cells. Biochimie, 2014, 97, 78-91.	2.6	38

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19	Novel nano-insulin formulation modulates cytokine secretion and remodeling to accelerate diabetic wound healing. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 15, 47-57.	3.3	37
20	Enhanced antifungal activity of fluconazole conjugated with Cu-Ag-ZnO nanocomposite. Materials Science and Engineering C, 2020, 106, 110160.	7.3	37
21	Paclitaxel resistance development is associated with biphasic changes in reactive oxygen species, mitochondrial membrane potential and autophagy with elevated energy production capacity in lung cancer cells: A chronological study. Tumor Biology, 2017, 39, 101042831769431.	1.8	33
22	Epigallocatechin-3-gallate shows anti-proliferative activity in HeLa cells targeting tubulin-microtubule equilibrium. Chemico-Biological Interactions, 2015, 242, 380-389.	4.0	32
23	Colchicine induces autophagy and senescence in lung cancer cells at clinically admissible concentration: potential use of colchicine in combination with autophagy inhibitor in cancer therapy. Tumor Biology, 2016, 37, 10653-10664.	1.8	32
24	2,4-Dichlorophenoxyacetic acid induced toxicity in lung cells by disruption of the tubulin-microtubule network. Toxicology Research, 2014, 3, 118.	2.1	30
25	Cigarette Smoke Extract Induces Disruption of Structure and Function of Tubulinâ^'Microtubule in Lung Epithelium Cells and in Vitro. Chemical Research in Toxicology, 2009, 22, 446-459.	3.3	28
26	Azadiradione ameliorates polyglutamine expansion disease inDrosophilaby potentiating DNA binding activity of heat shock factor 1. Oncotarget, 2016, 7, 78281-78296.	1.8	28
27	Paclitaxel-encapsulated coreâ€“shell nanoparticle of cetyl alcohol for active targeted delivery through oral route. Nanomedicine, 2019, 14, 2121-2150.	3.3	23
28	A novel triazole, NMK-T-057, induces autophagic cell death in breast cancer cells by inhibiting Î³-secretaseâ€“mediated activation of Notch signaling. Journal of Biological Chemistry, 2019, 294, 6733-6750.	3.4	23
29	A complex of Co(II) with 2-hydroxyphenyl-azo-2â€²-naphthol (HPAN) is far less cytotoxic than the parent compound on A549-lung carcinoma and peripheral blood mononuclear cells: Reasons for reduction in cytotoxicity. Chemico-Biological Interactions, 2011, 189, 206-214.	4.0	21
30	Theaflavin and epigallocatechinâ€3â€gallate synergistically induce apoptosis through inhibition of PI3K/Akt signaling upon depolymerizing microtubules in HeLa cells. Journal of Cellular Biochemistry, 2019, 120, 5987-6003.	2.6	20
31	Targeting cellular microtubule by phytochemical apocynin exhibits autophagy-mediated apoptosis to inhibit lung carcinoma progression and tumorigenesis. Phytomedicine, 2020, 67, 153152.	5.3	19
32	Smokeless Tobacco Extract (STE)-Induced Toxicity in Mammalian Cells is Mediated by the Disruption of Cellular Microtubule Network: A Key Mechanism of Cytotoxicity. PLoS ONE, 2013, 8, e68224.	2.5	17
33	NMK-TD-100, a Novel Microtubule Modulating Agent, Blocks Mitosis and Induces Apoptosis in HeLa Cells by Binding to Tubulin. PLoS ONE, 2013, 8, e76286.	2.5	16
34	Theaflavins Depolymerize Microtubule Network through Tubulin Binding and Cause Apoptosis of Cervical Carcinoma HeLa Cells. Journal of Agricultural and Food Chemistry, 2011, 59, 2040-2048.	5.2	15
35	NMK-BH2, a novel microtubule-depolymerising bis (indolyl)-hydrazide-hydrazone, induces apoptotic and autophagic cell death in cervical cancer cells by binding to tubulin at colchicine â€“ site. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118762.	4.1	14
36	Computational prediction of the molecular mechanism of statin group of drugs against SARS-CoV-2 pathogenesis. Scientific Reports, 2022, 12, 6241.	3.3	12

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37	Proline substitutions in a Mip-like peptidyl-prolyl cis-trans isomerase severely affect its structure, stability, shape and activity. Biochimie Open, 2015, 1, 28-39.	3.2	11
38	Leishmania donovani Infection Enhances Lateral Mobility of Macrophage Membrane Protein Which Is Reversed by Liposomal Cholesterol. PLoS Neglected Tropical Diseases, 2014, 8, e3367.	3.0	10
39	Acenaphthenequinone induces cell cycle arrest and mitochondrial apoptosis via disruption of cellular microtubules. Toxicology Research, 2012, 1, 171.	2.1	8
40	Potential role of autophagy in smokeless tobacco extract-induced cytotoxicity and in morin-induced protection in oral epithelial cells. Food and Chemical Toxicology, 2016, 90, 160-170.	3.6	8
41	Inhibitor-Induced Conformational Stabilization and Structural Alteration of a Mip-Like Peptidyl Prolyl cis-trans Isomerase and Its C-Terminal Domain. PLoS ONE, 2014, 9, e102891.	2.5	8
42	FtsA-FtsZ interaction in Vibrio cholerae causes conformational change of FtsA resulting in inhibition of ATP hydrolysis and polymerization. International Journal of Biological Macromolecules, 2020, 142, 18-32.	7.5	7
43	Dimethyl sulphoxide and Ca2+ stimulate assembly of Vibrio cholerae FtsZ. Biochimie, 2014, 105, 64-75.	2.6	6
44	Design, synthesis and biological evaluation of a novel library of antimitotic C2-aroyl/arylimino tryptamine derivatives that are also potent inhibitors of indoleamine-2, 3-dioxygenase (IDO). European Journal of Pharmaceutical Sciences, 2018, 124, 249-265.	4.0	6
45	A Facile and Microwave-assisted Rapid Synthesis of 2-Arylamino-4-(3â€²-indolyl)- thiazoles as Apoptosis Inducing Cytotoxic Agents. Anti-Cancer Agents in Medicinal Chemistry, 2017, 17, 442-455.	1.7	6
46	Unveiling the Potential of Unfused Bichromophoric Naphthalimide To Induce Cytotoxicity by Binding to Tubulin: Breaks Monotony of Naphthalimides as Conventional Intercalators. Journal of Physical Chemistry B, 2018, 122, 3680-3695.	2.6	5
47	Natural flavonoid morin showed anti-bacterial activity against Vibrio cholera after binding with cell division protein FtsA near ATP binding site. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129931.	2.4	5
48	Determining the roles of a conserved tyrosine residue in a Mip-like peptidyl-prolyl cisâ€“trans isomerase. International Journal of Biological Macromolecules, 2016, 87, 273-280.	7.5	4
49	Targeting Autophagy in Cancer: Therapeutic Implications. , 2020, , 249-264.		0
50	Microtubule-Targeting Agents Induce ROS-Mediated Apoptosis in Cancer. , 2022, , 565-582.		0