

# Kavita Shah

## List of Publications by Year in descending order

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114  
papers

7,353  
citations

57758

44  
h-index

58581

82  
g-index

138  
all docs

138  
docs citations

138  
times ranked

9501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targets of the cyclin-dependent kinase Cdk1. <i>Nature</i> , 2003, 425, 859-864.	27.8	835
2	Effect of cadmium on lipid peroxidation, superoxide anion generation and activities of antioxidant enzymes in growing rice seedlings. <i>Plant Science</i> , 2001, 161, 1135-1144.	3.6	733
3	A Chemical-Genetic Strategy Implicates Myosin-1c in Adaptation by Hair Cells. <i>Cell</i> , 2002, 108, 371-381.	28.9	318
4	ERK phosphorylation drives cytoplasmic accumulation of hnRNP-K and inhibition of mRNA translation. <i>Nature Cell Biology</i> , 2001, 3, 325-330.	10.3	267
5	Design of allele-specific inhibitors to probe protein kinase signaling. <i>Current Biology</i> , 1998, 8, 257-266.	3.9	211
6	Synthesis and anticancer activity of 5-(3-indolyl)-1,3,4-thiadiazoles. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 4664-4668.	5.5	170
7	Engineering Src family protein kinases with unnatural nucleotide specificity. <i>Chemistry and Biology</i> , 1998, 5, 91-101.	6.0	164
8	Cdk5 activity in the brain â€“ multiple paths of regulation. <i>Journal of Cell Science</i> , 2014, 127, 2391-2400.	2.0	164
9	Unnatural Ligands for Engineered Proteins: New Tools for Chemical Genetics. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000, 29, 577-606.	18.3	156
10	Generation of Monospecific Nanomolar Tyrosine Kinase Inhibitors via a Chemical Genetic Approach. <i>Journal of the American Chemical Society</i> , 1999, 121, 627-631.	13.7	152
11	An efficient synthesis and biological study of novel indolyl-1,3,4-oxadiazoles as potent anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4492-4494.	2.2	142
12	A Chemical Genetic Screen for Direct v-Src Substrates Reveals Ordered Assembly of a Retrograde Signaling Pathway. <i>Chemistry and Biology</i> , 2002, 9, 35-47.	6.0	130
13	Heat exposure alters the expression of SOD, POD, APX and CAT isozymes and mitigates low cadmium toxicity in seedlings of sensitive and tolerant rice cultivars. <i>Plant Physiology and Biochemistry</i> , 2012, 57, 106-113.	5.8	118
14	Identification of New JNK Substrate Using ATP Pocket Mutant JNK and a Corresponding ATP Analogue. <i>Journal of Biological Chemistry</i> , 2001, 276, 18090-18095.	3.4	117
15	Deregulated Cdk5 promotes oxidative stress and mitochondrial dysfunction. <i>Journal of Neurochemistry</i> , 2008, 107, 265-278.	3.9	113
16	Phosphorylation-dependent regulation of ALDH1A1 by Aurora kinase A: insights on their synergistic relationship in pancreatic cancer. <i>BMC Biology</i> , 2017, 15, 10.	3.8	113
17	Exogenous application of methyl jasmonate lowers the effect of cadmium-induced oxidative injury in rice seedlings. <i>Phytochemistry</i> , 2014, 108, 57-66.	2.9	107
18	Identification of Novel ERK2 Substrates through Use of an Engineered Kinase and ATP Analogs. <i>Journal of Biological Chemistry</i> , 2003, 278, 14926-14935.	3.4	106

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19	Salinity induced behavioural changes in malate dehydrogenase and glutamate dehydrogenase activities in rice seedlings of differing salt tolerance. <i>Plant Science</i> , 2000, 156, 23-34.	3.6	98
20	Novel bis(indolyl)hydrazide-hydrazones as potent cytotoxic agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 212-215.	2.2	94
21	Expression of key antioxidant enzymes under combined effect of heat and cadmium toxicity in growing rice seedlings. <i>Plant Growth Regulation</i> , 2011, 63, 23-35.	3.4	87
22	Novel Genetic Tools Reveal Cdk5's Major Role in Golgi Fragmentation in Alzheimer's Disease. <i>Molecular Biology of the Cell</i> , 2008, 19, 3052-3069.	2.1	85
23	$\lambda^2$ plaque-selective NIR fluorescence probe to differentiate Alzheimer's disease from tauopathies. <i>Biosensors and Bioelectronics</i> , 2017, 98, 54-61.	10.1	83
24	Effect of water withdrawal on formation of free radical, proline accumulation and activities of antioxidant enzymes in ZAT12-transformed transgenic tomato plants. <i>Plant Physiology and Biochemistry</i> , 2012, 61, 108-114.	5.8	81
25	PHLDA1 is a crucial negative regulator and effector of Aurora A kinase in breast cancer. <i>Journal of Cell Science</i> , 2011, 124, 2711-2722.	2.0	78
26	The Conserved NDR Kinase Orb6 Controls Polarized Cell Growth by Spatial Regulation of the Small GTPase Cdc42. <i>Current Biology</i> , 2009, 19, 1314-1319.	3.9	77
27	Nuclear envelope dispersion triggered by deregulated Cdk5 precedes neuronal death. <i>Molecular Biology of the Cell</i> , 2011, 22, 1452-1462.	2.1	74
28	Deregulated Cdk5 Triggers Aberrant Activation of Cell Cycle Kinases and Phosphatases Inducing Neuronal Death. <i>Journal of Cell Science</i> , 2012, 125, 5124-37.	2.0	72
29	Tale of the Good and the Bad Cdk5: Remodeling of the Actin Cytoskeleton in the Brain. <i>Molecular Neurobiology</i> , 2018, 55, 3426-3438.	4.0	72
30	Synthesis and in-vitro anticancer activity of 3,5-bis(indolyl)-1,2,4-thiadiazoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5897-5900.	2.2	69
31	Engineering of the Myosin-II Nucleotide-binding Pocket to Create Selective Sensitivity to N 6-modified ADP Analogs. <i>Journal of Biological Chemistry</i> , 1999, 274, 31373-31381.	3.4	68
32	Synthesis and anticancer activities of novel 3,5-disubstituted-1,2,4-oxadiazoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 2739-2741.	2.2	66
33	Glutathione S-transferase P1 is a critical regulator of Cdk5 kinase activity. <i>Journal of Neurochemistry</i> , 2011, 118, 902-914.	3.9	66
34	An expeditious synthesis and anticancer activity of novel 4-(3-indolyl)oxazoles. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 1244-1249.	5.5	65
35	Synthesis of novel 1,2,4-oxadiazoles and analogues as potential anticancer agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 3085-3092.	5.5	65
36	Cdk5 is a major regulator of p38 cascade: relevance to neurotoxicity in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2010, 113, 1221-1229.	3.9	64

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37	Mutant Tyrosine Kinases with Unnatural Nucleotide Specificity Retain the Structure and Phospho-Acceptor Specificity of the Wild-Type Enzyme. <i>Chemistry and Biology</i> , 2002, 9, 25-33.	6.0	61
38	Engineering drought tolerant tomato plants over-expressing BcZAT12 gene encoding a C2H2 zinc finger transcription factor. <i>Phytochemistry</i> , 2013, 85, 44-50.	2.9	57
39	Evidences for reduced metal-uptake and membrane injury upon application of nitric oxide donor in cadmium stressed rice seedlings. <i>Plant Physiology and Biochemistry</i> , 2014, 83, 180-184.	5.8	57
40	One-pot synthesis and anticancer studies of 2-arylamino-5-aryl-1,3,4-thiadiazoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2320-2323.	2.2	54
41	Floodplain Mapping through Support Vector Machine and Optical/Infrared Images from Landsat 8 OLI/TIRS Sensors: Case Study from Varanasi. <i>Water Resources Management</i> , 2017, 31, 1157-1171.	3.9	53
42	Direct and Indirect Roles of Cyclin-dependent Kinase 5 as an Upstream Regulator in the c-Jun NH <sub>2</sub> -Terminal Kinase Cascade: Relevance to Neurotoxic Insults in Alzheimer's Disease. <i>Molecular Biology of the Cell</i> , 2009, 20, 4611-4619.	2.1	50
43	A Tale of the Good and Bad: Remodeling of the Microtubule Network in the Brain by Cdk5. <i>Molecular Neurobiology</i> , 2017, 54, 2255-2268.	4.0	50
44	LIMK2 is a crucial regulator and effector of Aurora-A-kinase-mediated malignancy. <i>Journal of Cell Science</i> , 2012, 125, 1204-1216.	2.0	47
45	A series of 2-arylamino-5-(indolyl)-1,3,4-thiadiazoles as potent cytotoxic agents. <i>European Journal of Medicinal Chemistry</i> , 2012, 55, 432-438.	5.5	47
46	Cdk5-FOXO3a axis: initially neuroprotective, eventually neurodegenerative in Alzheimer's disease models. <i>Journal of Cell Science</i> , 2016, 129, 1815-1830.	2.0	47
47	Renewable energy resources, policies and gaps in BRICS countries and the global impact. <i>Frontiers in Energy</i> , 2019, 13, 506-521.	2.3	46
48	Cadmium elevates level of protein, amino acids and alters activity of proteolytic enzymes in germinating rice seeds. <i>Acta Physiologiae Plantarum</i> , 1998, 20, 189-196.	2.1	44
49	Synthesis of Novel Indolyl-1,2,4-triazoles as Potent and Selective Anticancer Agents. <i>Chemical Biology and Drug Design</i> , 2011, 77, 182-188.	3.2	44
50	Aurora A-Twist1 axis promotes highly aggressive phenotypes in pancreatic carcinoma. <i>Journal of Cell Science</i> , 2017, 130, 1078-1093.	2.0	44
51	Purification and identification of a Ca <sup>2+</sup> -pectate binding peroxidase from Arabidopsis leaves. <i>Phytochemistry</i> , 2004, 65, 307-312.	2.9	41
52	Divergent Roles of c-Src in Controlling Platelet-derived Growth Factor-dependent Signaling in Fibroblasts. <i>Molecular Biology of the Cell</i> , 2005, 16, 5418-5432.	2.1	39
53	Identification of otubain 1 as a novel substrate for the <i>Yersinia</i> protein kinase using chemical genetics and mass spectrometry. <i>FEBS Letters</i> , 2006, 580, 179-183.	2.8	39
54	A Chemical Genetic Approach for the Identification of Direct Substrates of Protein Kinases. , 2003, 233, 253-272.		37

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55	Identification of ChChd3 as a Novel Substrate of the cAMP-dependent Protein Kinase (PKA) Using an Analog-sensitive Catalytic Subunit. <i>Journal of Biological Chemistry</i> , 2007, 282, 14952-14959.	3.4	36
56	Synthesis and investigations into the anticancer and antibacterial activity studies of $\hat{I}^2$ -carboline chalcones and their bromide salts. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1278-1282.	2.2	34
57	Reduced Activity of Nitrate Reductase Under Heavy Metal Cadmium Stress in Rice: An in silico Answer. <i>Frontiers in Plant Science</i> , 2018, 9, 1948.	3.6	33
58	Direct Effects of HIV-1 Tat on Excitability and Survival of Primary Dorsal Root Ganglion Neurons: Possible Contribution to HIV-1-Associated Pain. <i>PLoS ONE</i> , 2011, 6, e24412.	2.5	32
59	Dissecting yeast Hog1 MAP kinase pathway using a chemical genetic approach. <i>FEBS Letters</i> , 2007, 581, 1209-1216.	2.8	31
60	Role of Melanin in Release of Extracellular Enzymes and Selection of Aggressive Isolates of <i>Bipolaris sorokiniana</i> in Barley. <i>Current Microbiology</i> , 2014, 69, 202-211.	2.2	31
61	Late-Onset Alzheimer's Disease, Heating up and Foxed by Several Proteins: Pathomolecular Effects of the Aging Process. <i>Journal of Alzheimer's Disease</i> , 2014, 40, 1-17.	2.6	30
62	Effect of heat-shock induced oxidative stress is suppressed in BcZAT12 expressing drought tolerant tomato. <i>Phytochemistry</i> , 2013, 95, 109-117.	2.9	29
63	Effect of organic solvents on peroxidases from rice and horseradish: Prospects for enzyme based applications. <i>Talanta</i> , 2012, 97, 204-210.	5.5	28
64	Evidences for suppression of cadmium induced oxidative stress in presence of sulphosalicylic acid in rice seedlings. <i>Plant Growth Regulation</i> , 2015, 76, 99-110.	3.4	27
65	Nitrate reductase from rice seedlings: Partial purification, characterization and the effects of in situ and in vitro NaCl salinity. <i>Journal of Plant Physiology</i> , 1997, 151, 316-322.	3.5	26
66	Src <sup>v</sup> Abl Tyrosine Kinase Chimeras: Replacement of the Adenine Binding Pocket of c-Abl with v-Src To Swap Nucleotide and Inhibitor Specificities. <i>Biochemistry</i> , 2000, 39, 14400-14408.	2.5	26
67	1-Pyrroline-5-carboxylate released by prostate Cancer cell inhibit T cell proliferation and function by targeting SHP1/cytochrome c oxidoreductase/ROS Axis. , 2018, 6, 148.		26
68	Generation of an Analog-sensitive Syk Tyrosine Kinase for the Study of Signaling Dynamics from the B Cell Antigen Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 33760-33768.	3.4	23
69	Cdk5-Mcl-1 axis promotes mitochondrial dysfunction and neurodegeneration in Alzheimer's disease model. <i>Journal of Cell Science</i> , 2017, 130, 3023-3039.	2.0	23
70	Effect of cadmium uptake and heat stress on root ultrastructure, membrane damage and antioxidative response in rice seedlings. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2013, 22, 103-112.	1.7	22
71	Identification of LIMK2 as a therapeutic target in castration resistant prostate cancer. <i>Cancer Letters</i> , 2019, 448, 182-196.	7.2	22
72	Inhibition of imiquimod-induced psoriasis-like dermatitis in mice by herbal extracts from some Indian medicinal plants. <i>Protoplasma</i> , 2016, 253, 503-515.	2.1	21

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73	Examining the uptake and bioaccumulation of molybdenum nanoparticles and their effect on antioxidant activities in growing rice seedlings. <i>Environmental Science and Pollution Research</i> , 2021, 28, 13439-13453.	5.3	21
74	In silico study of interaction between rice proteins enhanced disease susceptibility 1 and phytoalexin deficient 4, the regulators of salicylic acid signalling pathway. <i>Journal of Biosciences</i> , 2012, 37, 563-571.	1.1	20
75	2-(3-Indolyl)-N-arylthiazole-4-carboxamides: Synthesis and evaluation of antibacterial and anticancer activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4225-4231.	2.2	20
76	An epitope-imprinted piezoelectric diagnostic tool for <i>Neisseria meningitidis</i> detection. <i>Journal of Molecular Recognition</i> , 2016, 29, 572-579.	2.1	19
77	Epitope imprinting of iron binding protein of <i>Neisseria meningitidis</i> bacteria through multiple monomers imprinting approach. <i>Journal of Molecular Recognition</i> , 2018, 31, e2709.	2.1	19
78	Aurora Kinase A-YBX1 Synergy Fuels Aggressive Oncogenic Phenotypes and Chemoresistance in Castration-Resistant Prostate Cancer. <i>Cancers</i> , 2020, 12, 660.	3.7	19
79	Effective data convergence, mapping, and pollution categorization of ghats at Ganga River Front in Varanasi. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15912-15924.	5.3	19
80	Alterations in antioxidative machinery and growth parameters upon application of nitric oxide donor that reduces detrimental effects of cadmium in rice seedlings with increasing days of growth. <i>South African Journal of Botany</i> , 2020, 131, 283-294.	2.5	19
81	Receptor-interacting protein kinase 2 (RIPK2) stabilizes c-Myc and is a therapeutic target in prostate cancer metastasis. <i>Nature Communications</i> , 2022, 13, 669.	12.8	19
82	Multifaceted Regulation of ALDH1A1 by Cdk5 in Alzheimer's Disease Pathogenesis. <i>Molecular Neurobiology</i> , 2019, 56, 1366-1390.	4.0	18
83	Synthesis and Biological Evaluation of Arylamino-(3-Indolyl)-1,3,4-Oxadiazoles as Potent Cytotoxic Agents. <i>ChemMedChem</i> , 2013, 8, 1468-1474.	3.2	17
84	Evidences for growth-promoting and fungicidal effects of low doses of tricyclazole in barley. <i>Plant Physiology and Biochemistry</i> , 2016, 103, 176-182.	5.8	17
85	Regulation of inside-out $\beta$ 1-integrin activation by CDCP1. <i>Oncogene</i> , 2018, 37, 2817-2836.	5.9	17
86	A mitotic CDK5-PP4 phospho-signaling cascade primes 53BP1 for DNA repair in G1. <i>Nature Communications</i> , 2019, 10, 4252.	12.8	17
87	Effect of Tricyclazole on morphology, virulence and enzymatic alterations in pathogenic fungi <i>Bipolaris sorokiniana</i> for management of spot blotch disease in barley. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 23-35.	3.6	16
88	Synthesis and anticancer activity study of indolyl hydrazide-hydrazones. <i>Medicinal Chemistry Research</i> , 2016, 25, 941-950.	2.4	16
89	Sucrose plays key role in amelioration of arsenic induced phytotoxicity through modulating phosphate and silicon transporters, physiological and biochemical responses in C3 ( <i>Oryza sativa</i> L.) and C4 ( <i>Zea mays</i> L.). <i>Environmental and Experimental Botany</i> , 2020, 171, 103930.	4.2	15
90	Phosphorylation-dependent regulation of SPOP by LIMK2 promotes castration-resistant prostate cancer. <i>British Journal of Cancer</i> , 2021, 124, 995-1008.	6.4	15

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91	Evolving Human Dimensions and the Need for Continuous Health Assessment of Indian Rivers. <i>Current Science</i> , 2016, 111, 263.	0.8	15
92	A Facile Synthesis of Novel Bis(indolyl)oxadiazoles as Potent Cytotoxic Agents. <i>ChemMedChem</i> , 2012, 7, 1915-1920.	3.2	14
93	The significant others: Global search for direct kinase substrates using chemical approaches. <i>IUBMB Life</i> , 2019, 71, 721-737.	3.4	13
94	Design, synthesis and in vitro cytotoxicity studies of novel $\beta^2$ -carbolinium bromides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 1379-1384.	2.2	12
95	Molecular Interplay between AURKA and SPOP Dictates CRPC Pathogenesis via Androgen Receptor. <i>Cancers</i> , 2020, 12, 3247.	3.7	12
96	LIMK2-NKX3.1 Engagement Promotes Castration-Resistant Prostate Cancer. <i>Cancers</i> , 2021, 13, 2324.	3.7	12
97	Expression of ZAT12 transcripts in transgenic tomato under various abiotic stresses and modeling of ZAT12 protein in silico. <i>BioMetals</i> , 2014, 27, 1231-1247.	4.1	11
98	Negative cross talk between LIMK2 and PTEN promotes castration resistant prostate cancer pathogenesis in cells and in vivo. <i>Cancer Letters</i> , 2021, 498, 1-18.	7.2	11
99	Evidences for structural basis of altered ascorbate peroxidase activity in cadmium-stressed rice plants exposed to jasmonate. <i>BioMetals</i> , 2014, 27, 247-263.	4.1	10
100	Bioactive compounds of tomato fruits from transgenic plants tolerant to drought. <i>LWT - Food Science and Technology</i> , 2015, 61, 609-614.	5.2	10
101	Mycotoxins and Pesticides: Toxicity and Applications in Food and Feed. , 2018, , 207-252.		9
102	Orthogonal Chemical Genetic Approaches for Unraveling Signaling Pathways. <i>IUBMB Life</i> , 2005, 57, 397-405.	3.4	8
103	Sequential one-pot synthesis of bis(indolyl)glyoxylamides: Evaluation of antibacterial and anticancer activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3167-3171.	2.2	8
104	Engineering Unnatural Nucleotide Specificity to Probe G Protein Signaling. <i>Chemistry and Biology</i> , 2007, 14, 1007-1018.	6.0	7
105	Effect of calcium on immobilization of rice ( <i>Oryza sativa</i> L.) peroxidase for bioassays in sodium alginate and Agarose gel. <i>Biotechnology and Bioprocess Engineering</i> , 2008, 13, 632-638.	2.6	7
106	Synthesis and anticancer activity studies of indolylisoxazoline analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2842-2845.	2.2	7
107	Cadmium-Induced Anatomical Abnormalities in Plants. , 2019, , 111-139.		6
108	Transgenic Energy Plants for Phytoremediation of Toxic Metals and Metalloids. , 2019, , 319-340.		6

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109	Examining pharmacodynamic and pharmacokinetic properties of eleven analogues of saquinavir for HIV protease inhibition. Archives of Virology, 2019, 164, 949-960.	2.1	4
110	Examining structural analogs of elvitegravir as potential inhibitors of HIV-1 integrase. Archives of Virology, 2014, 159, 2069-2080.	2.1	3
111	Energy Credit Cards and Incentives for Energy Growth in India. Current Science, 2019, 117, 1441.	0.8	1
112	Corrigendum to "Identification of otubain 1 as a novel substrate for the Yersinia protein kinase using chemical genetics and mass spectrometry" [FEBS Lett. 580 (2006) 179-183]. FEBS Letters, 2008, 582, 3159-3159.	2.8	0
113	Reciprocal deregulation of NKX3.1 and AURKA axis in castration-resistant prostate cancer and NEPC models. Journal of Biomedical Science, 2021, 28, 68.	7.0	0
114	Abstract 5795: Loss of CDCP1 in patient prostate cancer metastasis leads to uncoupling of beta-1 integrin from its cytoplasmic signaling through FAK. , 2017, , .		0