

Kishore Paknikar

List of Publications by Year in descending order

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115
papers

8,635
citations

61984

43
h-index

43889

91
g-index

118
all docs

118
docs citations

118
times ranked

11942
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives for nano-biotechnology enabled protection and nutrition of plants. <i>Biotechnology Advances</i> , 2011, 29, 792-803.	11.7	834
2	Extracellular synthesis of silver nanoparticles by a silver-tolerant yeast strain MKY3. <i>Nanotechnology</i> , 2003, 14, 95-100.	2.6	679
3	Cellular responses induced by silver nanoparticles: In vitro studies. <i>Toxicology Letters</i> , 2008, 179, 93-100.	0.8	634
4	Silver Nanoparticles in Therapeutics: Development of an Antimicrobial Gel Formulation for Topical Use. <i>Molecular Pharmaceutics</i> , 2009, 6, 1388-1401.	4.6	512
5	Nanotoxicology and in vitro studies: The need of the hour. <i>Toxicology and Applied Pharmacology</i> , 2012, 258, 151-165.	2.8	456
6	Microbial synthesis of semiconductor CdS nanoparticles, their characterization, and their use in the fabrication of an ideal diode. <i>Biotechnology and Bioengineering</i> , 2002, 78, 583-588.	3.3	339
7	Interactions of silver nanoparticles with primary mouse fibroblasts and liver cells. <i>Toxicology and Applied Pharmacology</i> , 2009, 236, 310-318.	2.8	300
8	Iron-nickel bimetallic nanoparticles for reductive degradation of azo dye Orange G in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2008, 79, 270-278.	20.2	295
9	Applications of bacterial cellulose and its composites in biomedicine. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2491-2511.	3.6	270
10	Microbial Synthesis of Semiconductor PbS Nanocrystallites. <i>Advanced Materials</i> , 2002, 14, 815.	21.0	243
11	Biosorption of Lead, Cadmium, and Zinc by <i>Citrobacter</i> Strain MCM B-181: Characterization Studies. <i>Biotechnology Progress</i> , 1999, 15, 228-237.	2.6	208
12	Biosorption of lead and zinc from solutions using <i>Streptovercillium cinnamoneum</i> waste biomass. <i>Journal of Biotechnology</i> , 1997, 55, 113-124.	3.8	194
13	Applications of cobalt ferrite nanoparticles in biomedical nanotechnology. <i>Nanomedicine</i> , 2018, 13, 1221-1238.	3.3	194
14	Zinc oxide nanoparticles show antidiabetic activity in streptozotocin-induced Type 1 and 2 diabetic rats. <i>Nanomedicine</i> , 2014, 9, 89-104.	3.3	168
15	Effect of Surface Chemistry of Fe ²⁺ /Ni Nanoparticles on Mechanistic Pathways of Azo Dye Degradation. <i>Environmental Science & Technology</i> , 2007, 41, 7437-7443.	10.0	151
16	Zinc complexed chitosan/TPP nanoparticles: A promising micronutrient nanocarrier suited for foliar application. <i>Carbohydrate Polymers</i> , 2017, 165, 394-401.	10.2	141
17	Degradation of lindane from aqueous solutions using iron sulfide nanoparticles stabilized by biopolymers. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 370-374.	6.1	131
18	Development of a process for biodegradation of metal cyanides from waste waters. <i>Process Biochemistry</i> , 2000, 35, 1139-1151.	3.7	124

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19	A comparative study of the mass transfer kinetics of metal biosorption by microbial biomass. Hydrometallurgy, 1999, 52, 189-197.	4.3	99
20	Reductive dechlorination of $\hat{1}^3$ -hexachlorocyclohexane using Fe-Pd bimetallic nanoparticles. Journal of Hazardous Materials, 2010, 175, 680-687.	12.4	99
21	Recovery of gold from solutions using Cladosporium cladosporioides biomass beads. Journal of Biotechnology, 1998, 63, 121-136.	3.8	91
22	Zinc use efficiency is enhanced in wheat through nanofertilization. Scientific Reports, 2018, 8, 6832.	3.3	91
23	Nanogoldpharmaceutics. Gold Bulletin, 2007, 40, 245-250.	2.7	79
24	Influence of co-cations on biosorption of lead and zinc – a comparative evaluation in binary and multimetal systems. Bioresource Technology, 1999, 70, 269-276.	9.6	76
25	Comparative studies on metal biosorption by two strains of Cladosporium cladosporioides. Bioresource Technology, 2001, 80, 211-215.	9.6	74
26	Mesoporous silica nanoparticles as cutting-edge theranostics: Advancement from merely a carrier to tailor-made smart delivery platform. Journal of Controlled Release, 2018, 287, 35-57.	9.9	69
27	Antimicrobial activity of stingless bee (Trigona sp.) propolis used in the folk medicine of Western Maharashtra, India. Journal of Ethnopharmacology, 2012, 141, 363-367.	4.1	68
28	Fruit peels support higher yield and superior quality bacterial cellulose production. Applied Microbiology and Biotechnology, 2015, 99, 6677-6691.	3.6	65
29	Decapeptide functionalized targeted mesoporous silica nanoparticles with doxorubicin exhibit enhanced apoptotic effect in breast and prostate cancer cells. International Journal of Nanomedicine, 2018, Volume 13, 7669-7680.	6.7	61
30	Microbiological process for the removal of Cr(VI) from chromate-bearing cooling tower effluent. Biotechnology Letters, 1996, 18, 667-672.	2.2	60
31	Title is missing!. Biotechnology Letters, 1999, 21, 913-919.	2.2	58
32	Anticancer Activity of Indian Stingless Bee Propolis: An In Vitro Study. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-10.	1.2	57
33	Biodetoxification of silver-cyanide from electroplating industry wastewater. Letters in Applied Microbiology, 2000, 30, 33-37.	2.2	55
34	Bioremediation of hexavalent chromium in soil microcosms. Biotechnology Letters, 1998, 20, 749-751.	2.2	53
35	Protein and polymer immobilized La _{0.7} Sr _{0.3} MnO ₃ nanoparticles for possible biomedical applications. Nanotechnology, 2007, 18, 345101.	2.6	51
36	Cadmium biosorption by Streptomyces pimprina waste biomass. Applied Microbiology and Biotechnology, 1995, 43, 1118-1121.	3.6	50

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37	Bioreduction of tellurite to elemental tellurium by <i>Pseudomonas mendocina</i> MCM B-180 and its practical application. <i>Hydrometallurgy</i> , 2003, 71, 243-248.	4.3	50
38	Tumor suppressor protein SMAR1 modulates the roughness of cell surface: combined AFM and SEM study. <i>BMC Cancer</i> , 2009, 9, 350.	2.6	50
39	Arsenic (III) oxidizing <i>Microbacterium lacticum</i> and its use in the treatment of arsenic contaminated groundwater. <i>Letters in Applied Microbiology</i> , 2002, 34, 258-262.	2.2	48
40	In vitro and in vivo studies of a novel bacterial cellulose-based acellular bilayer nanocomposite scaffold for the repair of osteochondral defects. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6437-6459.	6.7	48
41	Folate/ N -acetyl glucosamine conjugated mesoporous silica nanoparticles for targeting breast cancer cells: A comparative study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 203-212.	5.0	47
42	Synthesis of Monodisperse Chitosan Nanoparticles and in Situ Drug Loading Using Active Microreactor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22839-22847.	8.0	44
43	Biodegradation of $\hat{1}^3$ -hexachlorocyclohexane (Lindane) by a non-white rot fungus <i>conidiobolus</i> 03-1-56 isolated from litter. <i>Indian Journal of Microbiology</i> , 2008, 48, 134-141.	2.7	43
44	Triptorelin Tethered Multifunctional PAMAM-Histidine-PEG Nanoconstructs Enable Specific Targeting and Efficient Gene Silencing in LHRH Overexpressing Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35562-35573.	8.0	43
45	Chitosan nanoparticles synthesis caught in action using microdroplet reactions. <i>Scientific Reports</i> , 2016, 6, 22260.	3.3	42
46	Fortification of vegetarian diets for increasing bioavailable iron density using green leafy vegetables. <i>Food Research International</i> , 1999, 32, 169-174.	6.2	39
47	Multiplexed Detection of Waterborne Pathogens in Circular Microfluidics. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1668-1677.	2.9	39
48	Isolation and characterization of selenite- and selenate-tolerant microorganisms from selenium-contaminated sites. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1607-1611.	3.6	38
49	Inhibition of $\hat{1}^2$ -Amyloid Aggregation through a Designed $\hat{1}^2$ -Hairpin Peptide. <i>Langmuir</i> , 2018, 34, 1591-1600.	3.5	38
50	Micronutrient Deficiencies as Predisposing Factors for Hypertension in Lacto-Vegetarian Indian Adults. <i>Journal of the American College of Nutrition</i> , 2004, 23, 239-247.	1.8	36
51	Cerium doping and stoichiometry control for biomedical use of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanoparticles: microwave absorption and cytotoxicity study. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006, 2, 217-221.	3.3	35
52	Thiosulfate biodegradationâ€“silver biosorption process for the treatment of photofilm processing wastewater. <i>Process Biochemistry</i> , 2003, 38, 855-860.	3.7	33
53	A robust pH-sensitive unimolecular dendritic nanocarrier that enables targeted anti-cancer drug delivery via GLUT transporters. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 437-444.	5.0	32
54	Smart triblock dendritic unimolecular micelles as pioneering nanomaterials: Advancement pertaining to architecture and biomedical applications. <i>Journal of Controlled Release</i> , 2019, 299, 64-89.	9.9	32

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55	Lanthanum strontium manganese oxide (LSMO) nanoparticles: a versatile platform for anticancer therapy. RSC Advances, 2015, 5, 60254-60263.	3.6	30
56	Field-Usable Lateral Flow Immunoassay for the Rapid Detection of White Spot Syndrome Virus (WSSV). PLoS ONE, 2017, 12, e0169012.	2.5	30
57	Nanocarrier-mediated foliar zinc fertilization influences expression of metal homeostasis related genes in flag leaves and enhances gluten content in durum wheat. PLoS ONE, 2018, 13, e0191035.	2.5	30
58	Dual effect of chitosan-based nanoparticles on the inhibition of β -amyloid peptide aggregation and disintegration of the preformed fibrils. Journal of Materials Chemistry B, 2019, 7, 3362-3373.	5.8	30
59	Dextran stabilized lanthanum strontium manganese oxide nanoparticles for magnetic resonance imaging. RSC Advances, 2013, 3, 18489.	3.6	29
60	Assessment of pearl millet vs rice based diets for bioavailability of four trace metals. Plant Foods for Human Nutrition, 1995, 48, 149-158.	3.2	27
61	SMAR1-derived P44 Peptide Retains Its Tumor Suppressor Function through Modulation of p53. Journal of Biological Chemistry, 2007, 282, 9902-9913.	3.4	25
62	Radio-frequency triggered heating and drug release using doxorubicin-loaded LSMO nanoparticles for bimodal treatment of breast cancer. Colloids and Surfaces B: Biointerfaces, 2016, 145, 878-890.	5.0	25
63	Bioremediation technologies for wastewaters using metabolically active microorganisms. Advances in Applied Microbiology, 2001, 48, 135-169.	2.4	24
64	RNA-sequencing reveals a multitude of effects of silver nanoparticles on <i>Pseudomonas aeruginosa</i> biofilms. Environmental Science: Nano, 2019, 6, 1812-1828.	4.3	24
65	Development of immunosensor using magnetic nanoparticles and circular microchannels in PDMS. Microelectronic Engineering, 2014, 115, 66-69.	2.4	23
66	Fluorescent cadmium telluride quantum dots embedded chitosan nanoparticles: a stable, biocompatible preparation for bio-imaging. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 42-56.	3.5	23
67	A high affinity phage-displayed peptide as a recognition probe for the detection of Salmonella Typhimurium. Journal of Biotechnology, 2016, 231, 40-45.	3.8	22
68	A facile one-step method for cell lysis and DNA extraction of waterborne pathogens using a microchip. Biosensors and Bioelectronics, 2018, 99, 62-69.	10.1	22
69	<i>In vitro</i> studies on the pleiotropic antidiabetic effects of zinc oxide nanoparticles. Nanomedicine, 2016, 11, 1671-1687.	3.3	21
70	Quantum dot based immunosensor using 3D circular microchannels fabricated in PDMS. Biosensors and Bioelectronics, 2011, 26, 3050-3053.	10.1	20
71	Radio frequency induced hyperthermia mediated by dextran stabilized LSMO nanoparticles: <i>in vitro</i> evaluation of heat shock protein response. Nanotechnology, 2013, 24, 015102.	2.6	19
72	Magneto-Conducting Core/Shell Nanoparticles for Biomedical Applications. ChemNanoMat, 2018, 4, 151-164.	2.8	19

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73	Effect of nicotinic acid on zinc and iron metabolism. <i>BioMetals</i> , 1997, 10, 271-276.	4.1	17
74	Effect of riboflavin supplementation on zinc and iron absorption and growth performance in mice. <i>Biological Trace Element Research</i> , 1998, 65, 109-115.	3.5	16
75	Hydrazine Based Facile Synthesis and Ordered Assembly of Metal Nanoparticles (Au, Ag) on a Bacterial Surface Layer Protein Template. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3565-3569.	0.9	16
76	Hyperthermia mediated by dextran-coated La _{0.7} Sr _{0.3} MnO ₃ nanoparticles: in vivo studies. <i>International Journal of Nanomedicine</i> , 2016, 11, 1779.	6.7	16
77	Landmark discoveries in intracellular transport and secretion. <i>Journal of Cellular and Molecular Medicine</i> , 2007, 11, 393-397.	3.6	15
78	Discovery of the Cell Secretion Machinery. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 218-222.	1.1	14
79	Ayurvedic Medicine Zinc Bhasma: Physicochemical Evaluation, Anti-Diabetic Activity and Safety Assessment. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 148-149.	1.1	14
80	<i>Jasada bhasma</i> , a Zinc-Based Ayurvedic Preparation: Contemporary Evidence of Antidiabetic Activity Inspires Development of a Nanomedicine. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015, 2015, 1-9.	1.2	14
81	miRNA transfection via poly(amidoamine)-based delivery vector prevents hypoxia/reperfusion-induced cardiomyocyte apoptosis. <i>Nanomedicine</i> , 2020, 15, 163-181.	3.3	14
82	Non-nuke HIV-1 inhibitor shuttled by mesoporous silica nanoparticles effectively slows down HIV-1 replication in infected human cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111227.	5.0	14
83	Apparent Absorption of Copper and Zinc from Composite Vegetarian Diets in Young Indian Men. <i>Annals of Nutrition and Metabolism</i> , 1994, 38, 13-19.	1.9	13
84	Plasmid mediated chromate resistance and reduction in <i>Pseudomonas mendocina</i> MCM B-180. <i>Biotechnology Letters</i> , 1996, 18, 1119-1122.	2.2	13
85	Comparative Performance of Pearl millet-and Sorghum- based Diets vs. Wheat-and Rice-based Diets for Trace Metal Bioavailability. <i>Journal of Trace Elements in Medicine and Biology</i> , 1999, 13, 215-219.	3.0	12
86	Temperature-dependent and time-dependent effects of hyperthermia mediated by dextran-coated La _{0.7} Sr _{0.3} MnO ₃ : in vitro studies. <i>International Journal of Nanomedicine</i> , 2015, 10, 1609.	6.7	11
87	Lateral flow assay for rapid detection of white spot syndrome virus (WSSV) using a phage-displayed peptide as bio-recognition probe. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4459-4469.	3.6	11
88	Flocculation of dimorphic yeast <i>Benjaminiella poitrasii</i> is altered by modulation of NAD-glutamate dehydrogenase. <i>Bioresource Technology</i> , 2010, 101, 1393-1395.	9.6	9
89	Differential dose-dependent effects of zinc oxide nanoparticles on oxidative stress-mediated pancreatic β -cell death. <i>Nanomedicine</i> , 2017, 12, 745-759.	3.3	9
90	Development of a nano-gold immunodiagnostic assay for rapid on-site detection of invasive aspergillosis. <i>Journal of Medical Microbiology</i> , 2019, 68, 1341-1352.	1.8	9

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91	Biochemical basis of chromate reduction by <i>Pseudomonas mendocina</i> . <i>Process Metallurgy</i> , 1999, 9, 105-114.	0.1	7
92	Microwave Response of La _{0.7} Sr _{0.3} MnO ₃ Nanoparticles for Heating Applications. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 178-183.	1.1	7
93	Anti-diabetic activity and safety assessment of Ayurvedic medicine, <i>Jasada bhasma</i> (zinc ash) in rats. <i>Indian Journal of Experimental Biology</i> , 2013, 51, 811-22.	0.0	7
94	In situ synthesis of Au nanoparticles in 3D circular microchannels in PDMS using a simple and reliable molding method. <i>Microelectronic Engineering</i> , 2012, 90, 104-107.	2.4	6
95	Carbon nanospheres mediated delivery of nuclear matrix protein SMAR1 to direct experimental autoimmune encephalomyelitis in mice. <i>International Journal of Nanomedicine</i> , 2016, 11, 2039.	6.7	6
96	Removal and recovery of metal-cyanides from industrial effluents. <i>Process Metallurgy</i> , 1999, , 707-715.	0.1	5
97	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2000, 16, 631-634.	3.6	5
98	Taguchi approach significantly increases bioremediation process efficiency: a case study with Hg (II) removal by <i>Pseudomonas aeruginosa</i> . <i>Letters in Applied Microbiology</i> , 2007, 45, 36-41.	2.2	5
99	Assessment of an Integrative Anticancer Treatment Using an in Vitro Perfusion-Enabled 3D Breast Tumor Model. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1407-1417.	5.2	5
100	Carbon nanospheres mediated nuclear delivery of SMAR1 protein (DNA binding domain) controls breast tumor in mice model. <i>Nanomedicine</i> , 2018, 13, 353-372.	3.3	5
101	Development and characterization of five novel cell lines from snubnose pompano, <i>Trachinotus blochii</i> (Lacepede, 1801), and their application in gene expression and virological studies. <i>Journal of Fish Diseases</i> , 2022, 45, 121-139.	1.9	5
102	Atomic force microscopy, biochemical analysis of 3T3-L1 cells differentiated in the absence and presence of insulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 57-64.	2.4	4
103	Getting more micronutrients from wheat and barley through agronomic biofortification. , 2020, , 53-99.		4
104	On-site detection of nodavirus in post larval (PL) stage of the giant prawn, <i>Macrobrachium rosenbergii</i> : A test to nip the problem in the bud. <i>Aquaculture</i> , 2021, 534, 736292.	3.5	4
105	Three-dimensional scaffold of gelatin-poly(methyl vinyl ether-alt-maleic anhydride) for regenerative medicine: Proliferation and differentiation of mesenchymal stem cells. <i>Journal of Bioactive and Compatible Polymers</i> , 2016, 31, 273-290.	2.1	3
106	Implications of Microbial Thiosulfate Utilization in Red Clay Sediments of the Central Indian Basin: The Martian Analogy. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 708-729.	2.5	3
107	Development of microbial biosorbents—a need for standardization of experimental protocols. <i>Process Metallurgy</i> , 1999, , 363-372.	0.1	2
108	Reply to comment on “Reductive dechlorination of ¹³ C-hexachlorocyclohexane using Fe-Pd bimetallic nanoparticles”, by C. Noubactep. <i>Journal of Hazardous Materials</i> , 2012, 235-236, 392-393.	12.4	2

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109	Production of chelating compounds by yeasts in a microbial copper leaching system and its practical implications. Bulletin of Materials Science, 1988, 10, 477-478.	1.7	1
110	Reduction of soil pH using Thiobacillus cultures. Process Metallurgy, 1999, , 717-723.	0.1	1
111	Bioremediation of Arsenic from Contaminated Water. , 2012, , 477-523.		1
112	MicroRNAs. Journal of Cardiovascular Pharmacology, 2021, Publish Ahead of Print, 773-781.	1.9	1
113	Entrapment of particles from suspensions using Aspergillus species. Process Metallurgy, 1999, 9, 725-730.	0.1	0
114	A hollow nanogold/meso-magnetite composite: pulsed laser synthesis, properties, and biosensing application. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	0
115	Nanotechnology-enabled phytodiagnosics on the brink of farm usage. , 2022, , 263-285.		0