

Rajesh K Mehra

List of Publications by Year in descending order

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29
papers

2,206
citations

236925

25
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal ion resistance in fungi: Molecular mechanisms and their regulated expression. <i>Journal of Cellular Biochemistry</i> , 1991, 45, 30-40.	2.6	280
2	Enhanced bioaccumulation of heavy metals by bacterial cells displaying synthetic phytochelatins. <i>Biotechnology and Bioengineering</i> , 2000, 70, 518-524.	3.3	185
3	Synthesis, Optical Spectroscopy and Ultrafast Electron Dynamics of PbS Nanoparticles with Different Surface Capping. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11598-11605.	2.6	158
4	Synthesis and Ultrafast Study of Cysteine- and Glutathione-Capped Ag ₂ S Semiconductor Colloidal Nanoparticles. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10194-10201.	2.5	143
5	Genetic Engineering of <i>Escherichia coli</i> for Enhanced Uptake and Bioaccumulation of Mercury. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5335-5338.	3.1	127
6	A Simple Colloidal Synthesis for Gram-Quantity Production of Water-Soluble ZnS Nanocrystal Powders. <i>Journal of Colloid and Interface Science</i> , 2000, 227, 561-566.	9.4	126
7	Novel synthetic phytochelatin-based capacitive biosensor for heavy metal ion detection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 547-553.	10.1	120
8	Efficient Photocatalytic Degradation of Environmental Pollutants with Mass-Produced ZnS Nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2001, 240, 525-532.	9.4	111
9	Measurement of Plasma Metallothionein-I in the Assessment of the Zinc Status of Zinc-Deficient and Stressed Rats. <i>Journal of Nutrition</i> , 1984, 114, 1683-1689.	2.9	109
10	Properties of glutathione- and phytochelatin-capped CdS bionanocrystallites. <i>Journal of Inorganic Biochemistry</i> , 1998, 69, 33-43.	3.5	75
11	Cysteine-capped ZnS nanocrystallites: Preparation and characterization. <i>Journal of Inorganic Biochemistry</i> , 1998, 70, 125-135.	3.5	75
12	Optical spectroscopic and reverse-phase HPLC analyses of Hg(II) binding to phytochelatins. <i>Biochemical Journal</i> , 1996, 314, 73-82.	3.7	73
13	Biomolecularly capped uniformly sized nanocrystalline materials: glutathione-capped ZnS nanocrystals. <i>Nanotechnology</i> , 1999, 10, 340-354.	2.6	69
14	Metal-binding characteristics of a phytochelatin analog (Glu-Cys) ₂ Gly. <i>Journal of Inorganic Biochemistry</i> , 1997, 68, 201-210.	3.5	65
15	Host Defenses against Copper Toxicity. <i>International Review of Experimental Pathology</i> , 1990, 31, 47-83.	0.2	63
16	Cu(I) binding to the <i>Schizosaccharomyces pombe</i> \hat{I}^3 -glutamyl peptides varying in chain lengths. <i>Archives of Biochemistry and Biophysics</i> , 1988, 265, 381-389.	3.0	58
17	Ag(I)-binding to phytochelatins. <i>Journal of Inorganic Biochemistry</i> , 1996, 61, 125-142.	3.5	44
18	Characteristics of Glutathione-Capped ZnS Nanocrystallites. <i>Biochemical and Biophysical Research Communications</i> , 1997, 237, 16-23.	2.1	44

#	ARTICLE	IF	CITATIONS
19	Cysteine-mediated synthesis of CdS bionanocrystallites. <i>Chemosphere</i> , 1998, 37, 363-385.	8.2	42
20	Zinc-Histidine as Nucleation Centers for Growth of ZnS Nanocrystals. <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 29-35.	2.1	42
21	Disruption analysis of metallothionein-encoding genes in <i>Candida glabrata</i> . <i>Gene</i> , 1992, 114, 75-80.	2.2	33
22	Heavy Metal Removal by Novel CBD-EC20 Sorbents Immobilized on Cellulose. <i>Biomacromolecules</i> , 2002, 3, 462-465.	5.4	32
23	Cloning system for <i>Candida glabrata</i> using elements from the metallothionein-Ila-encoding gene that confer autonomous replication. <i>Gene</i> , 1992, 113, 119-124.	2.2	30
24	Glutathione as a matrix for the synthesis of CdS nanocrystallites. <i>Chemosphere</i> , 1999, 38, 155-173.	8.2	28
25	Comparative Study of Time-Resolved Photoluminescence Properties of Terbium-Doped Thiosalicylic-Capped CdS and ZnS Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12153-12160.	2.6	26
26	Analysis of copper-induced metallothionein expression using autonomously replicating plasmids in <i>Candida glabrata</i> . <i>Yeast</i> , 1995, 11, 1501-1511.	1.7	17
27	A role for HEM2 in cadmium tolerance DNA sequence reported here has been submitted to GenBank (Accession number BankIt160246 AF038566).1. <i>Journal of Inorganic Biochemistry</i> , 1998, 69, 293-303.	3.5	15
28	Optical properties of terbium-doped thiosalicylic-capped CdS nanocrystals. <i>Chemical Physics Letters</i> , 2003, 377, 131-136.	2.6	9
29	[10] Assay of extracellular metallothionein. <i>Methods in Enzymology</i> , 1991, 205, 60-70.	1.0	7