Mansi Malhotra

List of Publications by Year
in descending order

27	927	471509 17	501196 28
papers	citations	h-index	g-index

29	29	29	1221
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proteins Immobilized at the Galleries of Layered Î±-Zirconium Phosphate:â€‰ Structure and Activity Studies. Journal of the American Chemical Society, 2000, 122, 830-837.	13.7	266
2	Nanoencapsulation of Cytochromecand Horseradish Peroxidase at the Galleries of Î±-Zirconium Phosphate. Chemistry of Materials, 1997, 9, 863-870.	6.7	126
3	Ultrathin Grapheneâ€“Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	19.5	88
4	Denaturation and Renaturation of Self-Assembled Yeast Iso-1-cytochromecon Au. Analytical Chemistry, 2004, 76, 2112-2117.	6.5	39
5	Tuning the Activities and Structures of Enzymes Bound to Graphene Oxide with a Protein Glue. Langmuir, 2013, 29, 15643-15654.	3.5	38
6	Novel enzyme/DNA/inorganic nanomaterials: a new generation of biocatalysts. Dalton Transactions, 2007, , 5483.	3.3	36
7	â€œStable-on-the-Tableâ€•Enzymes: Engineering the Enzymeâ€“Graphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst. ACS Catalysis, 2016, 6, 339-347.	11.2	34
8	Toward â€œStable-on-the-Tableâ€•Enzymes: Improving Key Properties of Catalase by Covalent Conjugation with Poly(acrylic acid). Bioconjugate Chemistry, 2014, 25, 1501-1510.	3.6	31
9	Nanobio Interfaces: Charge Control of Enzyme/Inorganic Interfaces for Advanced Biocatalysis. Langmuir, 2013, 29, 14001-14016.	3.5	30
10	Metal-Enzyme Frameworks: Role of Metal Ions in Promoting Enzyme Self-Assembly on Î±-Zirconium(IV) Phosphate Nanoplates. Langmuir, 2013, 29, 2971-2981.	3.5	26
11	Control of Enzymeâ€“Solid Interactions via Chemical Modification. Langmuir, 2012, 28, 11881-11889.	3.5	25
12	N-Heterocyclic carbene-ended polymers as surface ligands of plasmonic metal nanoparticles. Journal of Materials Chemistry C, 2020, 8, 2280-2288.	5.5	24
13	Controlling the Grapheneâ€“Bio Interface: Dispersions in Animal Sera for Enhanced Stability and Reduced Toxicity. Langmuir, 2017, 33, 14184-14194.	3.5	23
14	Proteinâ^'Solid Interactions: Important Role of Solvent, Ions, Temperature, and Buffer in Protein Binding to Î±-Zr(IV) Phosphate. Langmuir, 2009, 25, 12635-12643.	3.5	21
15	Molecular Signatures of Enzymeâ^'Solid Interactions: Thermodynamics of Protein Binding to Î±-Zr(IV) Phosphate Nanoplates. Journal of Physical Chemistry B, 2009, 113, 15083-15089.	2.6	20
16	Enzyme-inorganic nanoporous materials: Stabilization of proteins intercalated in Î±-zirconium(IV) phosphate by a denaturant. Microporous and Mesoporous Materials, 2008, 110, 517-527.	4.4	17
17	Biofunctionalization of Î±-Zirconium Phosphate Nanosheets: Toward Rational Control of Enzyme Loading, Affinities, Activities and Structure Retention. ACS Applied Materials & Interfaces, 2014, 6, 9643-9653.	8.0	17
18	â€œSimple-Stirâ€•Heterolayered MoS₂/Graphene Nanosheets for Znâ€“Air Batteries. ACS Applied Nano Materials, 2021, 4, 10389-10398.	5.0	17

#	Article	IF	Citations
19	Nanoarmoring: strategies for preparation of multi-catalytic enzyme polymer conjugates and enhancement of high temperature biocatalysis. RSC Advances, 2017, 7, 29563-29574.	3.6	12
20	Engineering functional inorganic nanobiomaterials: controlling interactions between 2D-nanosheets and enzymes. Dalton Transactions, 2020, 49, 3917-3933.	3.3	7
21	Stimuli-responsive, protein hydrogels for potential applications in enzymology and drug delivery$$^{S }$$. Journal of Chemical Sciences, 2018, 130, 1.	1.5	6
22	Stirred Not Shaken: Facile Production of High-Quality, High-Concentration Graphene Aqueous Suspensions Assisted by a Protein. ACS Applied Materials & Interfaces, 2020, 12, 3815-3826.	8.0	6
23	Adsorption of metal ions on graphene sheet for applications in environmental sensing and wastewater treatment. Sensors and Actuators Reports, 2022, 4, 100077.	4.4	6
24	Tuning Enzyme/Î±-Zr(IV) Phosphate Nanoplate Interactions via Chemical Modification of Glucose Oxidase. Langmuir, 2018, 34, 480-491.	3.5	5
25	Designer Histone Complexes: Controlling Proteinâ€“DNA Interactions with Protein Charge as an â€œAll-or-Noneâ€•Digital Switch. Journal of Physical Chemistry B, 2016, 120, 11880-11887.	2.6	3
26	One-step preparation of bioactive enzyme/inorganic materials. Journal of Materials Chemistry B, 2021, 9, 8451-8463.	5.8	2
27	Exfoliated and water dispersible biocarbon nanotubes for enzymology applications. Methods in Enzymology, 2020, 630, 407-430.	1.0	1