

# Mansi Malhotra

## List of Publications by Year in descending order

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27  
papers

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citations

471509

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501196

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docs citations

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times ranked

1221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of metal ions on graphene sheet for applications in environmental sensing and wastewater treatment. <i>Sensors and Actuators Reports</i> , 2022, 4, 100077.	4.4	6
2	One-step preparation of bioactive enzyme/inorganic materials. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8451-8463.	5.8	2
3	Simple-Stirred Heterolayered MoS <sub>2</sub> /Graphene Nanosheets for Zn-Air Batteries. <i>ACS Applied Nano Materials</i> , 2021, 4, 10389-10398.	5.0	17
4	N-Heterocyclic carbene-ended polymers as surface ligands of plasmonic metal nanoparticles. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2280-2288.	5.5	24
5	Stirred Not Shaken: Facile Production of High-Quality, High-Concentration Graphene Aqueous Suspensions Assisted by a Protein. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3815-3826.	8.0	6
6	Engineering functional inorganic nanobiomaterials: controlling interactions between 2D-nanosheets and enzymes. <i>Dalton Transactions</i> , 2020, 49, 3917-3933.	3.3	7
7	Exfoliated and water dispersible biocarbon nanotubes for enzymology applications. <i>Methods in Enzymology</i> , 2020, 630, 407-430.	1.0	1
8	Tuning Enzyme-Zr(IV) Phosphate Nanoplate Interactions via Chemical Modification of Glucose Oxidase. <i>Langmuir</i> , 2018, 34, 480-491.	3.5	5
9	Stimuli-responsive, protein hydrogels for potential applications in enzymology and drug delivery. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	6
10	Ultrathin Graphene-Protein Supercapacitors for Miniaturized Bioelectronics. <i>Advanced Energy Materials</i> , 2017, 7, 1700358.	19.5	88
11	Nanoarmoring: strategies for preparation of multi-catalytic enzyme polymer conjugates and enhancement of high temperature biocatalysis. <i>RSC Advances</i> , 2017, 7, 29563-29574.	3.6	12
12	Controlling the Graphene-Bio Interface: Dispersions in Animal Sera for Enhanced Stability and Reduced Toxicity. <i>Langmuir</i> , 2017, 33, 14184-14194.	3.5	23
13	Designer Histone Complexes: Controlling Protein-DNA Interactions with Protein Charge as an All-or-None Digital Switch. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11880-11887.	2.6	3
14	Stable-on-the-Table Enzymes: Engineering the Enzyme-Graphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst. <i>ACS Catalysis</i> , 2016, 6, 339-347.	11.2	34
15	Biofunctionalization of Zirconium Phosphate Nanosheets: Toward Rational Control of Enzyme Loading, Affinities, Activities and Structure Retention. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9643-9653.	8.0	17
16	Toward Stable-on-the-Table Enzymes: Improving Key Properties of Catalase by Covalent Conjugation with Poly(acrylic acid). <i>Bioconjugate Chemistry</i> , 2014, 25, 1501-1510.	3.6	31
17	Metal-Enzyme Frameworks: Role of Metal Ions in Promoting Enzyme Self-Assembly on Zirconium(IV) Phosphate Nanoplates. <i>Langmuir</i> , 2013, 29, 2971-2981.	3.5	26
18	Tuning the Activities and Structures of Enzymes Bound to Graphene Oxide with a Protein Glue. <i>Langmuir</i> , 2013, 29, 15643-15654.	3.5	38

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19	Nanobio Interfaces: Charge Control of Enzyme/Inorganic Interfaces for Advanced Biocatalysis. <i>Langmuir</i> , 2013, 29, 14001-14016.	3.5	30
20	Control of Enzyme-Solid Interactions via Chemical Modification. <i>Langmuir</i> , 2012, 28, 11881-11889.	3.5	25
21	Protein-Solid Interactions: Important Role of Solvent, Ions, Temperature, and Buffer in Protein Binding to $\text{H}_2\text{Zr(IV)}$ Phosphate. <i>Langmuir</i> , 2009, 25, 12635-12643.	3.5	21
22	Molecular Signatures of Enzyme-Solid Interactions: Thermodynamics of Protein Binding to $\text{H}_2\text{Zr(IV)}$ Phosphate Nanoplates. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15083-15089.	2.6	20
23	Enzyme-inorganic nanoporous materials: Stabilization of proteins intercalated in $\text{H}_2\text{-zirconium(IV)}$ phosphate by a denaturant. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 517-527.	4.4	17
24	Novel enzyme/DNA/inorganic nanomaterials: a new generation of biocatalysts. <i>Dalton Transactions</i> , 2007, , 5483.	3.3	36
25	Denaturation and Renaturation of Self-Assembled Yeast Iso-1-cytochromecon Au. <i>Analytical Chemistry</i> , 2004, 76, 2112-2117.	6.5	39
26	Proteins Immobilized at the Galleries of Layered $\text{H}_2\text{-Zirconium Phosphate}$ : Structure and Activity Studies. <i>Journal of the American Chemical Society</i> , 2000, 122, 830-837.	13.7	266
27	Nanoencapsulation of Cytochrome and Horseradish Peroxidase at the Galleries of $\text{H}_2\text{-Zirconium Phosphate}$ . <i>Chemistry of Materials</i> , 1997, 9, 863-870.	6.7	126