

Dhriti Nepal

List of Publications by Year in descending order

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55
papers

3,418
citations

159585

30
h-index

161849

54
g-index

55
all docs

55
docs citations

55
times ranked

5382
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for Liquid Phase Exfoliation of MoS ₂ . Chemistry of Materials, 2016, 28, 337-348.	6.7	340
2	Transport of surface-modified iron nanoparticle in porous media and application to arsenic(III) remediation. Journal of Nanoparticle Research, 2007, 9, 725-735.	1.9	226
3	pH-Sensitive Dispersion and Debundling of Single-Walled Carbon Nanotubes: Lysozyme as a Tool. Small, 2006, 2, 406-412.	10.0	203
4	Strong Antimicrobial Coatings: Single-Walled Carbon Nanotubes Armored with Biopolymers. Nano Letters, 2008, 8, 1896-1901.	9.1	189
5	Growth Mechanism of Gold Nanorods. Chemistry of Materials, 2013, 25, 555-563.	6.7	186
6	Proteins and Carbon Nanotubes: Close Encounter in Water. Small, 2007, 3, 1259-1265.	10.0	175
7	Halogen Etch of Ti ₃ AlC ₂ MAX Phase for MXene Fabrication. ACS Nano, 2021, 15, 2771-2777.	14.6	154
8	Enhanced stability of enzyme organophosphate hydrolase interfaced on the carbon nanotubes. Colloids and Surfaces B: Biointerfaces, 2010, 77, 69-74.	5.0	127
9	Control over Position, Orientation, and Spacing of Arrays of Gold Nanorods Using Chemically Nanopatterned Surfaces and Tailored Particle-Particle-Surface Interactions. ACS Nano, 2012, 6, 5693-5701.	14.6	126
10	Self-Assembly of Emissive Nanocellulose/Quantum Dot Nanostructures for Chiral Fluorescent Materials. ACS Nano, 2019, 13, 9074-9081.	14.6	115
11	Individualization of Single-Walled Carbon Nanotubes: Is the Solvent Important?. Small, 2005, 1, 1117-1124.	10.0	103
12	Plasmon-Induced Transparency in the Visible Region via Self-Assembled Gold Nanorod Heterodimers. Nano Letters, 2013, 13, 6287-6291.	9.1	101
13	Large Scale Solution Assembly of Quantum Dot-Gold Nanorod Architectures with Plasmon Enhanced Fluorescence. ACS Nano, 2013, 7, 9064-9074.	14.6	91
14	The First Fullerene-Terminated Soluble Poly(azomethine) Rotaxane. Macromolecules, 2003, 36, 3800-3802.	4.8	88
15	Engineering the Optical Properties of Gold Nanorods: Independent Tuning of Surface Plasmon Energy, Extinction Coefficient, and Scattering Cross Section. Journal of Physical Chemistry C, 2014, 118, 5918-5926.	3.1	80
16	Chiral Cellulose Nanocrystals with Intercalated Amorphous Polysaccharides for Controlled Iridescence and Enhanced Mechanics. Advanced Functional Materials, 2020, 30, 2003597.	14.9	73
17	Cellulose nanocrystals with different morphologies and chiral properties. Polymer, 2018, 145, 334-347.	3.8	66
18	Supramolecular Conjugates of Carbon Nanotubes and DNA by a Solid-State Reaction. Biomacromolecules, 2005, 6, 2919-2922.	5.4	62

#	ARTICLE	IF	CITATIONS
19	Molecular engineering of interphases in polymer/carbon nanotube composites to reach the limits of mechanical performance. <i>Composites Science and Technology</i> , 2018, 166, 86-94.	7.8	59
20	Cholesteric and Nematic Liquid Crystalline Phase Behavior of Double-Stranded DNA Stabilized Single-Walled Carbon Nanotube Dispersions. <i>ACS Nano</i> , 2011, 5, 1450-1458.	14.6	57
21	High-Yield Assembly of Soluble and Stable Gold Nanorod Pairs for High-Temperature Plasmonics. <i>Small</i> , 2012, 8, 1013-1020.	10.0	56
22	Electron-Withdrawing Effect of Native Terminal Groups on the Lattice Structure of Ti_3C_2Tx MXenes Studied by Resonance Raman Scattering: Implications for Embedding MXenes in Electronic Composites. <i>ACS Applied Nano Materials</i> , 2019, 2, 6087-6091.	5.0	55
23	Radiation hardness of the electrical properties of carbon nanotube network field effect transistors under high-energy proton irradiation. <i>Nanotechnology</i> , 2006, 17, 5675-5680.	2.6	54
24	Vitrimer Transition Temperature Identification: Coupling Various Thermomechanical Methodologies. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1756-1766.	4.4	47
25	Silver deposited titanium dioxide thin film for photocatalysis of organic compounds using natural light. <i>Solar Energy</i> , 2013, 88, 242-249.	6.1	41
26	Plasmonic Resonances in Self-Assembled Reduced Symmetry Gold Nanorod Structures. <i>Nano Letters</i> , 2013, 13, 2220-2225.	9.1	41
27	Lyotropic Liquid Crystalline Self-Assembly in Dispersions of Silver Nanowires and Nanoparticles. <i>Langmuir</i> , 2010, 26, 11176-11183.	3.5	39
28	Chemistry of Carbon Nanotubes for Everyone. <i>Journal of Chemical Education</i> , 2012, 89, 221-229.	2.3	35
29	Switchable Photonic Bio-Adhesive Materials. <i>Advanced Materials</i> , 2021, 33, e2103674.	21.0	33
30	Hollow porous carbon nanospheres with large surface area and stability, assembled from oxidized fullerenes. <i>Journal of Materials Chemistry</i> , 2005, 15, 1049.	6.7	31
31	Surface Assembly and Plasmonic Properties in Strongly Coupled Segmented Gold Nanorods. <i>Small</i> , 2013, 9, 2979-2990.	10.0	31
32	Orientation Sensing with Color Using Plasmonic Gold Nanorods and Assemblies. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2568-2574.	4.6	30
33	Transesterification in Vitrimer Polymers Using Bifunctional Catalysts: Modeled with Solution-Phase Experimental Rates and Theoretical Analysis of Efficiency and Mechanisms. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2411-2424.	2.6	30
34	Toward Architected Nanocomposites: MXenes and Beyond. <i>ACS Nano</i> , 2021, 15, 21-28.	14.6	28
35	Using surface grafted poly(acrylamide) to simultaneously enhance the tensile strength, tensile modulus, and interfacial adhesion of carbon fibres in epoxy composites. <i>Carbon</i> , 2022, 186, 367-379.	10.3	24
36	Monolithic Chiral Nematic Organization of Cellulose Nanocrystals under Capillary Confinement. <i>ACS Nano</i> , 2021, 15, 19418-19429.	14.6	23

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37	Creep Mechanics of Epoxy Vitrimer Materials. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4254-4263.	4.4	21
38	Conductive Polyamideâ€“Graphene Composite Fabric via Interface Engineering. <i>Langmuir</i> , 2019, 35, 2261-2269.	3.5	18
39	Co-assembling Polysaccharide Nanocrystals and Nanofibers for Robust Chiral Iridescent Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35345-35353.	8.0	17
40	Surface Functionalization of Ti ₃ C ₂ T _x MXene Nanosheets with Catechols: Implication for Colloidal Processing. <i>Langmuir</i> , 2021, 37, 5447-5456.	3.5	17
41	A Review of In Situ Mechanical Characterization of Polymer Nanocomposites: Prospect and Challenges. <i>Applied Mechanics Reviews</i> , 2017, 69, .	10.1	16
42	The use of carbon nanotube yarn as a filter medium to treat nitroaromatic-contaminated water. <i>New Carbon Materials</i> , 2016, 31, 415-423.	6.1	14
43	Multichannel hollow carbon fibers: Processing, structure, and properties. <i>Carbon</i> , 2021, 174, 730-740.	10.3	14
44	Computational Prediction of Molecular Photoresponse upon Proximity to Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13961-13967.	3.1	13
45	Hierarchical Assembly of Gold Nanoparticles on Graphene Nanoplatelets by Spontaneous Reduction: Implications for Smart Composites and Biosensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 8753-8762.	5.0	13
46	Carbon Fiber Surface Functional Landscapes: Nanoscale Topography and Property Distribution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4699-4713.	8.0	10
47	Lysozyme Coated DNA and DNA/SWNT Fibers by Solution Spinning. <i>Macromolecular Bioscience</i> , 2011, 11, 875-881.	4.1	9
48	Rheology of lyotropic cholesteric liquid crystal forming single-wall carbon nanotube dispersions stabilized by double-stranded DNA. <i>Rheologica Acta</i> , 2016, 55, 717-725.	2.4	8
49	Analyticalâ€“Based Methodologies for Examining the In Vitro Absorption, Distribution, Metabolism, and Elimination (ADME) of Silver Nanoparticles. <i>Small</i> , 2017, 13, 1603093.	10.0	8
50	Poly(azomethine) Rotaxanes: Novel Water Soluble Supramolecular Polymers with High Molar Mass. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2074-2079.	3.9	7
51	Modeling Approach to Capture Hyperelasticity and Temporary Bonds in Soft Polymer Networks. <i>Macromolecules</i> , 2022, 55, 3573-3587.	4.8	5
52	Effective response of heterogeneous materials using the recursive projection method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112946.	6.6	4
53	Ab initio molecular dynamics modeling of single polyethylene chains: Scission kinetics and influence of radical under mechanical strain. <i>Journal of Chemical Physics</i> , 2021, 155, 024102.	3.0	3
54	Gold Nanorods: High-Yield Assembly of Soluble and Stable Gold Nanorod Pairs for High-Temperature Plasmonics (<i>Small</i> 7/2012). <i>Small</i> , 2012, 8, 1012-1012.	10.0	1

#	ARTICLE	IF	CITATIONS
55	Gas cluster etching for the universal preparation of polymer composites for nano chemical and mechanical analysis with AFM. Applied Surface Science, 2022, 599, 153954.	6.1	1