

Himadri B Bohidar

List of Publications by Year in descending order

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80
papers

1,882
citations

279798

23
h-index

289244

40
g-index

95
all docs

95
docs citations

95
times ranked

2301
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-Induced Coacervation in Complexes of Bovine Serum Albumin and Cationic Polyelectrolytes. <i>Biomacromolecules</i> , 2000, 1, 100-107.	5.4	246
2	Kinetics of sol-gel transition in thermoreversible gelation of gelatin. <i>Journal of Chemical Physics</i> , 1993, 98, 8970-8977.	3.0	129
3	Carbon dots-modified chitosan based electrochemical biosensing platform for detection of vitamin D. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 687-697.	7.5	90
4	Mesophase separation and probe dynamics in protein-polyelectrolyte coacervates. <i>Soft Matter</i> , 2007, 3, 1064-1076.	2.7	70
5	Structural studies of agar-gelatin complex coacervates by small angle neutron scattering, rheology and differential scanning calorimetry. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 301-307.	7.5	67
6	Bandgap Tunable AgInS based Quantum Dots for High Contrast Cell Imaging with Enhanced Photodynamic and Antifungal Applications. <i>Scientific Reports</i> , 2018, 8, 9322.	3.3	64
7	Multifunctional, fluorescent DNA-derived carbon dots for biomedical applications: bioimaging, luminescent DNA hydrogels, and dopamine detection. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1277-1289.	5.8	59
8	Complex coacervation in charge complementary biopolymers: Electrostatic versus surface patch binding. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 40-53.	14.7	56
9	Dynamic Light Scattering Study of Gelatin-Surfactant Interactions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5063-5068.	2.6	50
10	DNA-Gelatin Complex Coacervation, UCST and First-Order Phase Transition of Coacervate to Anisotropic ion gel in 1-Methyl-3-octylimidazolium Chloride Ionic Liquid Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14805-14816.	2.6	39
11	Antifungal efficacy of Au@ carbon dots nanoconjugates against opportunistic fungal pathogen, <i>Candida albicans</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 355-361.	5.0	36
12	Dynamic Light Scattering and Viscosity Studies on the Association Behavior of Silicone Surfactants in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5382-5390.	2.6	34
13	Effect of pyrrolidinium based ionic liquid on the channel form of gramicidin in lipid vesicles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 149, 1-8.	3.8	31
14	Size-dependent CdSe quantum dot-lysozyme interaction and effect on enzymatic activity. <i>RSC Advances</i> , 2016, 6, 46744-46754.	3.6	31
15	pH responsive doxorubicin loaded zein nanoparticle crosslinked pectin hydrogel as effective site-specific anticancer substrates. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 1027-1037.	7.5	30
16	Anomalous self-assembly of gelatin in ethanol-water marginal solvent. <i>Physical Review E</i> , 2004, 69, 021902.	2.1	29
17	Length scale hierarchy in sol, gel, and coacervate phases of gelatin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1653-1667.	2.1	29
18	Eco-friendly synthesis of CuInS ₂ and CuInS ₂ @ZnS quantum dots and their effect on enzyme activity of lysozyme. <i>RSC Advances</i> , 2018, 8, 30589-30599.	3.6	29

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19	Condensation, Complex Coacervation, and Overcharging during DNA-Gelatin Interactions in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13192-13199.	2.6	28
20	Ergodicity breaking and aging dynamics in Laponite-Montmorillonite mixed clay dispersions. <i>Soft Matter</i> , 2012, 8, 6120.	2.7	28
21	Self-healing gelatin ionogels. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 603-607.	7.5	28
22	DNA ionogel: Structure and self-assembly. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 804-812.	2.8	27
23	Light scattering and viscosity study of heat aggregation of insulin. , 1998, 45, 1-8.		26
24	Interactions in globular proteins with polyampholyte: coacervation route for protein separation. <i>RSC Advances</i> , 2015, 5, 13579-13589.	3.6	26
25	Effect of persistence length on binding of DNA to polyions and overcharging of their intermolecular complexes in aqueous and in 1-methyl-3-octyl imidazolium chloride ionic liquid solutions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12262.	2.8	24
26	Spinodal decomposition and phase separation kinetics in nanoclay-biopolymer solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 555-565.	2.1	23
27	CuInGaSe nanocrystals for detection of trace amount of water in D ₂ O (at ppm level). <i>Crystal Research and Technology</i> , 2016, 51, 561-568.	1.3	23
28	Slow dynamics, hydration and heterogeneity in Laponite dispersions. <i>Soft Matter</i> , 2013, 9, 2003.	2.7	22
29	Overcharging, thermal, viscoelastic and hydration properties of DNA-gelatin complex coacervates: pharmaceutical and food industries. <i>RSC Advances</i> , 2014, 4, 11705-11713.	3.6	21
30	Cellular uptake induced biotoxicity of surface-modified CdSe quantum dots. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	21
31	Fluorescent complex coacervates of agar and in situ formed zein nanoparticles: Role of electrostatic forces. <i>Carbohydrate Polymers</i> , 2019, 224, 115150.	10.2	21
32	Physical and fluorescent characteristics of non-functionalized carbon nanoparticles from candle soot. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	20
33	Influence of Structure, Charge, and Concentration on the Pectin-Calcium-Surfactant Complexes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4249-4257.	2.6	20
34	Surface patch binding and mesophase separation in biopolymeric polyelectrolyte-polyampholyte solutions. <i>International Journal of Biological Macromolecules</i> , 2014, 63, 29-37.	7.5	19
35	Heparin-like native protein aggregate dissociation by 1-alkyl-3-methyl imidazolium chloride ionic liquids. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 23-30.	7.5	18
36	Fluorescent MoS ₂ Quantum Dot-DNA Nanocomposite Hydrogels for Organic Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 1289-1297.	5.0	18

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37	Effect of gelatin molecular charge heterogeneity on formation of intermolecular complexes and coacervation transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1511-1520.	2.1	17
38	Antimicrobial and biocompatibility of highly fluorescent ZnSe core and ZnSe@ZnS core-shell quantum dots. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	17
39	Hydrogel nanotubes with ice helices as exotic nanostructures for diabetic wound healing. <i>Materials Horizons</i> , 2019, 6, 274-284.	12.2	17
40	Spontaneous evolution of self-assembled phases from anisotropic colloidal dispersions. <i>Colloid and Polymer Science</i> , 2015, 293, 2883-2890.	2.1	16
41	Electrochemical response of agar ionogels towards glucose detection. <i>Analytical Methods</i> , 2015, 7, 5876-5885.	2.7	15
42	Dual-probe (colorimetric and fluorometric) detection of ferritin using antibody-modified gold@carbon dot nanoconjugates. <i>Mikrochimica Acta</i> , 2019, 186, 687.	5.0	15
43	Potential of Gelatin@Zinc Oxide Nanocomposite as Ascorbic Acid Sensor. <i>Electroanalysis</i> , 2015, 27, 2448-2457.	2.9	14
44	Statistical thermodynamics of liquid-liquid phase separation in ternary systems during complex coacervation. <i>Physical Review E</i> , 2010, 82, 036107.	2.1	13
45	Internal structure and thermo-viscoelastic properties of agar ionogels. <i>Carbohydrate Polymers</i> , 2015, 134, 617-626.	10.2	12
46	Slow dynamics and equilibrium gelation in fractionated montmorillonite nanoplatelet dispersions. <i>Colloid and Polymer Science</i> , 2019, 297, 1053-1065.	2.1	12
47	Light scattering observation of spinodal line in gelatin gels. <i>Journal of Chemical Physics</i> , 1993, 98, 3568-3570.	3.0	11
48	Charge heterogeneity induced binding and phase stability in β -lacto-globulin@gelatin B gels and coacervates at their common pl. <i>RSC Advances</i> , 2015, 5, 67066-67076.	3.6	11
49	Surface patch binding induced interaction of anisotropic nanoclays with globular plasma proteins. <i>RSC Advances</i> , 2016, 6, 104117-104125.	3.6	11
50	Multimode sensing of riboflavin via Ag@carbon dot conjugates. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 281-291.	3.1	11
51	Is surface patch binding between proteins symmetric about isoelectric pH?. <i>RSC Advances</i> , 2014, 4, 24710.	3.6	10
52	Boron-doped carbon quantum dots: a "turn-off" fluorescent probe for dopamine detection. <i>Nanotechnology</i> , 2020, 32, 025501.	2.6	10
53	Hierarchical Internal Structures in Gelatin@Bovine Serum Albumin/ β -Lactoglobulin Gels and Coacervates. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9506-9512.	2.6	9
54	ZnSe core and ZnSe@ZnS core-shell quantum dots as platform for folic acid sensing. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	9

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55	Solvent hydrophobicity induced complex coacervation of dsDNA and in situ formed zein nanoparticles. <i>Soft Matter</i> , 2017, 13, 6784-6791.	2.7	9
56	Folic acid supramolecular ionogels. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22934-22945.	2.8	9
57	AFM Study of Morphology of Ethanol Induced Gelatin Coacervation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2005, 54, 675-689.	3.4	8
58	Kinetics of anisotropic ordering in Laponite dispersions induced by a water-air interface. <i>Physical Review E</i> , 2013, 88, 052310.	2.1	8
59	In-situ Observation of Hierarchical Self-Assembly Driven by Bicontinuous Gelation in Mixed Nanodisc Dispersions. <i>Scientific Reports</i> , 2018, 8, 5589.	3.3	8
60	Effect of organic and inorganic salt environment on the complex coacervation of in situ formed protein nanoparticles and DNA. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 1290-1296.	7.5	7
61	Determination of absolute polydispersity and molecular weight distribution of high molecular weight polymers from dynamic light scattering. <i>Journal of Chemical Physics</i> , 1993, 99, 673-681.	3.0	6
62	Small-angle neutron and dynamic light scattering study of gelatin coacervates. <i>Pramana - Journal of Physics</i> , 2004, 63, 271-276.	1.8	6
63	Size-dependent magnetic properties of cubic-phase MnSe nanospheres emitting blue-violet fluorescence. <i>Materials Research Express</i> , 2018, 5, 056106.	1.6	6
64	Surface Active and Association Behavior of Oxybutylene α -Oxyethylene and Oxyethylene α -Oxybutylene α -Oxyethylene Copolymers in Aqueous Solutions. <i>Langmuir</i> , 2003, 19, 4597-4603.	3.5	5
65	Hierarchical self-assembly, spongy architecture, liquid crystalline behaviour and phase diagram of Laponite nanoplatelets in alcohol-water binary solvents. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 731-742.	9.4	5
66	Thermo-reversibility, ergodicity and surface charge α temperature dependent phase diagram of anionic, cationic and neutral co-gels of gelatin α BSA complexes. <i>RSC Advances</i> , 2016, 6, 40123-40136.	3.6	4
67	Self-assembly of synthetic liposome-like curcumin nanoparticles. <i>RSC Advances</i> , 2016, 6, 73677-73682.	3.6	4
68	Characterization of microstructure, viscoelasticity, heterogeneity and ergodicity in pectin α laponite α CTAB α calcium nanocomposite hydrogels. <i>Carbohydrate Polymers</i> , 2016, 136, 242-249.	10.2	4
69	Heat-induced coacervation of elastin and its possible thermoreversibility. <i>Colloid and Polymer Science</i> , 2019, 297, 947-956.	2.1	4
70	Comparative In Vitro Cytotoxicity Study of Carbon Dot-Based Organometallic Nanoconjugates: Exploration of Their Cell Proliferation, Uptake, and Localization in Cancerous and Normal Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-11.	4.0	4
71	Comparative evaluation of enzyme-free nanoclay-ionic liquid based electrodes for detection of bioanalytes. <i>RSC Advances</i> , 2016, 6, 66120-66129.	3.6	3
72	Complex Coacervation and Overcharging during Interaction between Hydrophobic Zein and Hydrophilic Laponite in Aqueous Ethanol Solution. <i>ACS Omega</i> , 2020, 5, 33064-33074.	3.5	3

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73	Sub-diffusion and trapped dynamics of neutral and charged probes in DNA-protein coacervates. AIP Advances, 2013, 3, 112108.	1.3	2
74	Negative differential resistance in nanoclay films offers pressure sensing characteristics. Applied Physics Letters, 2013, 102, 103109.	3.3	1
75	Surface patch binding-induced exfoliation of nanoclays and enhancement of physical properties of gelatin organogels. Polymer International, 2017, 66, 327-336.	3.1	1
76	Ubiquity of complex coacervation of DNA and proteins in aqueous solution. Soft Matter, 2020, 16, 9525-9533.	2.7	1
77	Kinetics of self-organization of polyampholyte nanoparticles in solutions. Bulletin of Materials Science, 2008, 31, 391-395.	1.7	0
78	Self-assembly and gelation of TX-100 in water. Colloid and Polymer Science, 2017, 295, 903-909.	2.1	0
79	Universal Validity of Einstein Relation and Size-Dependent Viscosity and Surface-Active Characteristics of Nanofluids. International Journal of Nanoscience, 2018, 17, 1850006.	0.7	0
80	Biomolecules of Similar Charge Polarity Form Hybrid Gel. Soft Materials, 0, , 1-12.	1.7	0