

kamla Rawat

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,340
citations

331670

21
h-index

434195

31
g-index

82
all docs

82
docs citations

82
times ranked

1784
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal Charge Quenching and Stability of Proteins in 1-Methyl-3-alkyl (Hexyl/Octyl) Imidazolium Chloride Ionic Liquid Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11065-11074.	2.6	67
2	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
3	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
4	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
5	Au@carbon dot nanoconjugates as a dual mode enzyme-free sensing platform for cholesterol. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5425-5432.	5.8	50
6	Single Electron Transfer-Driven Multi-Dimensional Signal Read-out Function of TCNQ as an "Off-the-Shelf" Detector for Cyanide. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6996-7000.	8.0	41
7	pH and ionic strength induced complex coacervation of Pectin and Gelatin A. <i>Food Hydrocolloids</i> , 2018, 74, 132-138.	10.7	41
8	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
9	Hot injection versus room temperature synthesis of CdSe quantum dots: A differential spectroscopic and bioanalyte sensing efficacy evaluation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 494, 162-169.	4.7	36
10	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
11	Aspect Ratio Dependent Cytotoxicity and Antimicrobial Properties of Nanoclay. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 936-944.	2.9	33
12	Size-dependent CdSe quantum dot-lysozyme interaction and effect on enzymatic activity. <i>RSC Advances</i> , 2016, 6, 46744-46754.	3.6	31
13	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
14	Self-healing gelatin ionogels. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 603-607.	7.5	28
15	DNA ionogel: Structure and self-assembly. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 804-812.	2.8	27
16	Interactions in globular proteins with polyampholyte: coacervation route for protein separation. <i>RSC Advances</i> , 2015, 5, 13579-13589.	3.6	26
17	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
18	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

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19	Interaction of plasma proteins with ZnSe and ZnSe@ZnS core-shell quantum dots. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 520, 131-137.	4.7	23
20	Effect of solvent hydrophobicity on gelation kinetics and phase diagram of gelatin ionogels. <i>Soft Matter</i> , 2014, 10, 862-872.	2.7	21
21	Cellular uptake induced biotoxicity of surface-modified CdSe quantum dots. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	21
22	Studies on clay-gelatin nanocomposite as urea sensor. <i>Applied Clay Science</i> , 2017, 146, 297-305.	5.2	21
23	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
24	Influence of Structure, Charge, and Concentration on the Pectinâ€“Calciumâ€“Surfactant Complexes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4249-4257.	2.6	20
25	Surface patch binding and mesophase separation in biopolymeric polyelectrolyteâ€“polyampholyte solutions. <i>International Journal of Biological Macromolecules</i> , 2014, 63, 29-37.	7.5	19
26	Biocompatible laponite ionogels based non-enzymatic oxalic acid sensor. <i>Sensing and Bio-Sensing Research</i> , 2015, 5, 105-111.	4.2	19
27	Enzyme-free and biocompatible nanocomposite based cholesterol sensor. <i>Biochemical Engineering Journal</i> , 2015, 102, 69-73.	3.6	18
28	Biocompatible capped iron oxide nanoparticles for <i>Vibrio cholerae</i> detection. <i>Nanotechnology</i> , 2015, 26, 175302.	2.6	18
29	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
30	Fluorescent MoS ₂ Quantum Dotâ€“DNA Nanocomposite Hydrogels for Organic Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 1289-1297.	5.0	18
31	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
32	Electrochemical response of agar ionogels towards glucose detection. <i>Analytical Methods</i> , 2015, 7, 5876-5885.	2.7	15
33	Imidazolium based ionic liquid induced DNA gelation at remarkably low concentration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 184-191.	4.7	15
34	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
35	Potential of Gelatinâ€“Zinc Oxide Nanocomposite as Ascorbic Acid Sensor. <i>Electroanalysis</i> , 2015, 27, 2448-2457.	2.9	14
36	Spectroscopic profile of surfactant functionalized CdSe quantum dots and their interaction with globular plasma protein BSA. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 495-506.	4.7	14

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37	Hierarchical Surface Charge Dependent Phase States of Gelatin–Bovine Serum Albumin Dispersions Close to Their Common pl. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11161-11171.	2.6	13
38	Antibacterial and Antifungal Activity of Biopolymers Modified with Ionic Liquid and Laponite. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 267-277.	2.9	13
39	Internal structure and thermo-viscoelastic properties of agar ionogels. <i>Carbohydrate Polymers</i> , 2015, 134, 617-626.	10.2	12
40	A Facile Platform for Photocatalytic Reduction of Methylene Blue Dye By CdSe-TiO ₂ Nanoparticles. <i>Water Conservation Science and Engineering</i> , 2017, 2, 43-50.	1.7	12
41	Mixing ratio dependent complex coacervation versus bicontinuous gelation of pectin with in situ formed zein nanoparticles. <i>Soft Matter</i> , 2018, 14, 6463-6475.	2.7	12
42	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
43	Cadmium-free aqueous synthesis of ZnSe and ZnSe@ZnS core–shell quantum dots and their differential bioanalyte sensing potential. <i>Materials Research Express</i> , 2016, 3, 105014.	1.6	11
44	Surface patch binding induced interaction of anisotropic nanoclays with globular plasma proteins. <i>RSC Advances</i> , 2016, 6, 104117-104125.	3.6	11
45	Carbon dots-embedded fluorescent silica xerogel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123844.	4.7	11
46	Multimode sensing of riboflavin via Ag@carbon dot conjugates. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 281-291.	3.1	11
47	Low dilution hydration boundary in liquid–liquid phase equilibria of 1-methyl-3-alkyl (hexyl/octyl) imidazolium chloride ionic liquids. <i>Journal of Molecular Liquids</i> , 2012, 169, 136-143.	4.9	10
48	Is surface patch binding between proteins symmetric about isoelectric pH?. <i>RSC Advances</i> , 2014, 4, 24710.	3.6	10
49	Response of Gelatin Modified Electrode towards Sensing of Different Metabolites. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1032-1042.	2.9	10
50	Hydrophilic, fluorescent and superparamagnetic iron oxide-carbon composite nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 514, 218-225.	4.7	10
51	Boron-doped carbon quantum dots: a turn-off fluorescent probe for dopamine detection. <i>Nanotechnology</i> , 2020, 32, 025501.	2.6	10
52	Interface versus bulk gelation and UCST in hydrophobically assembled TX-100 molecular gels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 499, 113-122.	4.7	9
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	Effect of hydrogen ion implantation on cholesterol sensing using enzyme-free LAPONITE [®] -montmorillonite electrodes. <i>RSC Advances</i> , 2016, 6, 22664-22672.	3.6	9

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55	ZnSe core and ZnSe@ZnS core-shell quantum dots as platform for folic acid sensing. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	9
56	Solvent hydrophobicity induced complex coacervation of dsDNA and in situ formed zein nanoparticles. Soft Matter, 2017, 13, 6784-6791.	2.7	9
57	Folic acid supramolecular ionogels. Physical Chemistry Chemical Physics, 2017, 19, 22934-22945.	2.8	9
58	Interaction of Globular Plasma Proteins with Water-Soluble CdSe Quantum Dots. ChemPhysChem, 2015, 16, 1777-1786.	2.1	8
59	Mechanistic evaluation of the size dependent antimicrobial activity of water soluble QDs. Analytical Methods, 2016, 8, 1060-1068.	2.7	8
60	Room temperature synthesis of fluorescent band gap tunable Cu ₁ In ^x Ga _x Se _{2.5} nanocrystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 509, 182-189.	4.7	7
61	Effect of organic and inorganic salt environment on the complex coacervation of in situ formed protein nanoparticles and DNA. International Journal of Biological Macromolecules, 2019, 122, 1290-1296.	7.5	7
62	Cytotoxicity and Antimicrobial Activity of Transition Metal Oxide Nanoparticles. Advanced Science Letters, 2014, 20, 1650-1653.	0.2	7
63	Coexistence of Iso-Nonergodic Laponite Gel and Glass in 1-Methyl-3-Octylimidazolium Chloride Ionic Liquid Solutions. Journal of Physical Chemistry B, 2014, 118, 6329-6338.	2.6	6
64	Hierarchical self-assembly, relaxations and ergodic-non-ergodic transition in laponite ionogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 461, 66-75.	4.7	5
65	Thermo-reversibility, ergodicity and surface charge-temperature dependent phase diagram of anionic, cationic and neutral co-gels of gelatin-BSA complexes. RSC Advances, 2016, 6, 40123-40136.	3.6	4
66	Self-assembly of synthetic liposome-like curcumin nanoparticles. RSC Advances, 2016, 6, 73677-73682.	3.6	4
67	Characterization of microstructure, viscoelasticity, heterogeneity and ergodicity in pectin-laponite-CTAB-calcium nanocomposite hydrogels. Carbohydrate Polymers, 2016, 136, 242-249.	10.2	4
68	Zener diode behavior of nitrogen-doped graphene quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 104, 36-41.	2.7	4
69	Heat-induced coacervation of elastin and its possible thermoreversibility. Colloid and Polymer Science, 2019, 297, 947-956.	2.1	4
70	Ionic liquid induced surface exclusion and anomalous first-order phase transition in Laponite dispersions. Journal of Molecular Liquids, 2015, 207, 177-184.	4.9	3
71	Comparative evaluation of enzyme-free nanoclay-ionic liquid based electrodes for detection of bioanalytes. RSC Advances, 2016, 6, 66120-66129.	3.6	3
72	Gelatin-Ionic liquid Based Platform for Glucose Detection. Current Topics in Medicinal Chemistry, 2015, 15, 1257-1267.	2.1	3

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73	Smoluchowski aggregation kinetics, gelation, ergodicity breaking and aging dynamics of (1:1) Laponite-Montmorillonite mixed clay dispersions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 501, 55-64.	4.7	2
74	Surface patch binding-induced exfoliation of nanoclays and enhancement of physical properties of gelatin organogels. Polymer International, 2017, 66, 327-336.	3.1	1
75	Effect of Aspect Ratio of Nano-Clay on the Secondary Structure of ds DNA. Advanced Science Focus, 2014, 2, 37-41.	0.1	1
76	Physical, antimicrobial and cytotoxic characterisation of LaF ₃ Eu ₃ SUP ₃ ion doped nanocrystals. International Journal of Nanoparticles, 2015, 8, 184.	0.3	0
77	Self-assembly and gelation of TX-100 in water. Colloid and Polymer Science, 2017, 295, 903-909.	2.1	0
78	A Differential Temperature-Dependent Dielectric Relaxation Study of Organoclay Cloisite TM . International Journal of Thermophysics, 2017, 38, 1.	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	Secondary Structure of Proteins is Affected by Complexation with Water Soluble CdSe Quantum Dots. Advanced Science Focus, 2014, 2, 47-51.	0.1	0