

Bijay Kumar Mishra

List of Publications by Year in descending order

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62
papers

2,537
citations

361413

20
h-index

189892

50
g-index

68
all docs

68
docs citations

68
times ranked

3274
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical modification of silica surface by immobilization of functional groups for extractive concentration of metal ions. <i>Talanta</i> , 2004, 62, 1005-1028.	5.5	802
2	Oxidation by permanganate: synthetic and mechanistic aspects. <i>Tetrahedron</i> , 2009, 65, 707-739.	1.9	221
3	A synthon approach to spiro compounds. <i>Tetrahedron</i> , 2006, 62, 779-828.	1.9	219
4	Clouding behaviour in surfactant systems. <i>Advances in Colloid and Interface Science</i> , 2011, 162, 59-79.	14.7	156
5	Synthesis and characterization of nanosilica prepared by precipitation method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 240, 173-178.	4.7	137
6	Syntheses of cyanines: a review. <i>Tetrahedron</i> , 2012, 68, 781-805.	1.9	106
7	Organically modified silica: Synthesis and applications due to its surface interaction with organic molecules. <i>Advances in Colloid and Interface Science</i> , 2008, 140, 77-94.	14.7	101
8	Oxidation of thiourea and substituted thioureas: a review. <i>Journal of Sulfur Chemistry</i> , 2011, 32, 171-197.	2.0	88
9	Chromium(VI) oxidants having quaternary ammonium ions: studies on synthetic applications and oxidation kinetics. <i>Tetrahedron</i> , 2007, 63, 4367-4406.	1.9	64
10	Reversal in solvatochromism in some novel styrylpyridinium dyes having a hydrophobic cleft. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 757-762.	3.9	48
11	Organization of amphiphiles. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 1-8.	9.4	46
12	Adsorption of Styryl Pyridinium Dyes on Silica Gel. <i>Journal of Colloid and Interface Science</i> , 1996, 182, 473-477.	9.4	42
13	A Short Review of the Generation of Molecular Descriptors and Their Applications in Quantitative Structure Property/Activity Relationships. <i>Current Computer-Aided Drug Design</i> , 2016, 12, 181-205.	1.2	41
14	Extraction of metal ions using chemically modified silica gel: a PIXE analysis. <i>Talanta</i> , 2001, 55, 233-240.	5.5	40
15	Preferential Solvation of Styrylpyridinium Dyes in Binary Mixtures of Alcohols with Hexane, Dioxane, and Dichloromethane. <i>Journal of Physical Chemistry B</i> , 2011, 115, 99-108.	2.6	35
16	Solvatochromism of some hemicyanines. <i>Journal of Molecular Liquids</i> , 2013, 177, 335-342.	4.9	30
17	Arsenic removal using bagasse fly ash-iron coated and sponge iron char. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1467-1473.	6.7	30
18	Selective Oxidation of Arylaldoximes by Cetyltrimethylammonium Dichromate to Arylaldehydes and Arylnitriles. <i>Synthetic Communications</i> , 2005, 35, 3123-3126.	2.1	27

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19	Organization of amphiphiles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 252, 169-174.	4.7	26
20	Mn(VII) oxidation using cetyltrimethylammonium permanganate: Self-oxidation of CTAP and oxidation of benzyl alcohol. International Journal of Chemical Kinetics, 1995, 27, 627-635.	1.6	20
21	Reversal in Solvatochromism: AnET(30) Switch for a New Class of Cyanine Dyes. Bulletin of the Chemical Society of Japan, 1996, 69, 2581-2584.	3.2	20
22	Cetyltrimethylammonium Dichromate: A Phase-Transferring Oxidant. Synthetic Communications, 2005, 35, 1033-1037.	2.1	17
23	Effect of temperature on pseudoternary system Tween-80-butanol-hexane-water. Journal of Colloid and Interface Science, 2011, 355, 157-163.	9.4	17
24	Quantitative Structure-Activity Relationships of Aquatic Narcosis: A Review. Current Computer-Aided Drug Design, 2018, 14, 7-28.	1.2	16
25	Solvent Effect on the Potential Energy Surfaces of the $F^{3+} + CH_3CH_2Br$ Reaction. Journal of Physical Chemistry A, 2018, 122, 5861-5869.	2.5	15
26	Oxidation of Styrylpyridinium Dyes by Permanganate Ion. Bulletin of the Chemical Society of Japan, 1994, 67, 3289-3296.	3.2	13
27	Hydrolysis of schiff bases 2: Intramolecular catalysis of an ortho-hydroxy group in nonionic surfactant systems. International Journal of Chemical Kinetics, 1992, 24, 593-618.	1.6	11
28	Alkylation of Ethanolamines: An Approach to a Novel Class of Functional Surfactants. Synthetic Communications, 2009, 39, 2529-2539.	2.1	11
29	Adsorption of Phenol from Aqueous Solutions by Bael Furit Shell Activated Carbon: Kinetic, Equilibrium, and Mass Transfer Studies. Theoretical Foundations of Chemical Engineering, 2019, 53, 122-131.	0.7	11
30	A critical assessment of closed- and open-shell heterocyclobutadienes. Chemical Physics Letters, 1988, 151, 44-46.	2.6	10
31	A novel lipopathic Cr(VI) oxidant for organic substrates: Kinetic study of oxidation of benzyl alcohol. International Journal of Chemical Kinetics, 2006, 38, 651-656.	1.6	9
32	Oxidation of Arylthiourea by Cetyltrimethylammonium Dichromate. Synthetic Communications, 2010, 40, 3268-3273.	2.1	8
33	Design, Synthesis and Cytotoxicity of Novel Chalcone Analogs Derived from 1-Cyclohexylpyrrolidine and 2,3-Dihydrobenzo[f]chromen-1-one. Archiv Der Pharmazie, 2012, 345, 4.1 341-348.		8
34	Adsorption of Chicago Sky Blue on the Langmuir Monolayer and Langmuir-Blodgett Films of Octadecylamine. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 619-624.	2.2	7
35	Formation of Complex Langmuir and Langmuir-Blodgett Films of DNA with a Dichain Cationic Surfactant. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 160-163.	2.2	7
36	Molecular modeling in dioxane methanol interaction. Journal of Molecular Modeling, 2014, 20, 2408.	1.8	7

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37	Aggregation of non-amphiphilic bathophenanthroline in the restricted geometry of Langmuir-Blodgett films with two different matrices. <i>Thin Solid Films</i> , 2011, 520, 537-542.	1.8	6
38	Quantitative structure property relationship for Henry's law constant of some alkane isomers. <i>Thermochimica Acta</i> , 2011, 512, 273-277.	2.7	5
39	Investigation of Miscibility and Aggregate Formation in the Mixed Langmuir-Blodgett Films of 2-aminoanthracene by Surface Pressure and Spectroscopic Methods. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 557, 253-261.	0.9	5
40	Oxidation Kinetics of Simvastatin Using Cetyltrimethylammonium Dichromate. <i>International Journal of Chemical Kinetics</i> , 2013, 45, 236-242.	1.6	5
41	Behavior of Coronene in the Mixed Langmuir-Blodgett (LB) Films of Two Different Matrixes on Water and Solid Surfaces. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 49-54.	2.2	5
42	Synthesis, Characterization, Solution Behavior, and Density Functional Theory Analysis of Some Pyridinium-Based Ionic Liquids. <i>Journal of Surfactants and Detergents</i> , 2018, 21, 367-373.	2.1	5
43	Study of Miscibility and Aggregate Formation in Nano-Dimensional Langmuir-Blodgett Films of p-Quaterphenyl with Stearic Acid. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 328-334.	0.4	4
44	On the Synthesis and Anticancer Testing of α,β -Unsaturated Ketones as Analogs of Combretastatin-A4. <i>Letters in Drug Design and Discovery</i> , 2009, 6, 531-537.	0.7	4
45	Importance of steric effect and evaluation of quantitative structure reactivity relationship (QSRR) in the quaternization reaction of benzothiazoles and phenacyl bromide. <i>International Journal of Chemical Kinetics</i> , 1989, 21, 439-444.	1.6	3
46	Separation, Isolation, and Characterization of Isoform Impurities of Gemcitabine Formed During the Anomerization of Protected β -Gemcitabine to Gemcitabine. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 3093-3105.	1.0	3
47	Design, Synthesis, and Cytotoxicity of Novel β -Arylidenedones Derived from Alicyclic Ketones. <i>Chemical Biology and Drug Design</i> , 2011, 78, 700-708.	3.2	3
48	Incorporation of Erythrosin B Within the Restricted Geometry of Langmuir Monolayer and Langmuir-Blodgett Films of Octadecylamine. <i>Soft Materials</i> , 2013, 11, 85-89.	1.7	3
49	Temperature-induced phase separation in pseudoternary mixtures of Triton X-100-butanol-kerosene-water. <i>Soft Materials</i> , 2016, 14, 107-116.	1.7	3
50	Effect of solvent polarity on the potential energy surface in the SN2 reaction of $F^{\ominus} + CH_3Cl$. <i>Computational and Theoretical Chemistry</i> , 2019, 1150, 18-25.	2.5	3
51	Reactions in microemulsion media: Schiff bases with targeting/anchoring module as kinetic sensors to map the polarity pocket of a microemulsion droplet. <i>International Journal of Chemical Kinetics</i> , 2001, 33, 458-464.	1.6	2
52	Deoximation by cetyltrimethylammonium dichromate: A kinetic study. <i>International Journal of Chemical Kinetics</i> , 2011, 43, 482-488.	1.6	2
53	Behavior of 1-Pyrene-Carboxaldehyde Mixed with a Polymer Matrix within the Nano-Dimensional Langmuir-Blodgett Films. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 155-162.	0.3	2
54	Self-Organized Assemblies of Surfactants Derived from Ethanolamines. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 881-886.	2.4	2

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55	5-Benzylidene-3-phenyl-2-phenylimino-1,3-thiazolidin-4-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1781-o1782.	0.2	1
56	BEHAVIOR OF METHYLENE BLUE WITH ARACHIDIC ACID IN THE RESTRICTED GEOMETRY OF LANGMUIR-BLODGETT FILM. Surface Review and Letters, 2014, 21, 1450030.	1.1	1
57	SPECTROSCOPIC CHARACTERIZATION OF NIAGARA BLUE DYE IN THE RESTRICTED GEOMETRY OF LAYER-BY-LAYER SELF-ASSEMBLED FILMS. Surface Review and Letters, 2016, 23, 1650056.	1.1	1
58	Spectroscopic and microscopic study of aggregate formation in the nano-dimensional Langmuir-Blodgett films of perylene with a fatty acid/polymer. Molecular Crystals and Liquid Crystals, 2016, 625, 276-287.	0.9	1
59	Design, Synthesis and Cytotoxicity of Chalcone Analogs Derived from 2-Phenylimino-3-phenylthiazolidin-4-one. Letters in Drug Design and Discovery, 2011, 8, 704-708.	0.7	1
60	Cetyltrimethylammonium Dichromate: A Phase-Transferring Oxidant.. ChemInform, 2005, 36, no.	0.0	0
61	Phase separation in the Langmuir-Blodgett films of p-quaterphenyl mixed with two different matrices. International Journal of Modern Physics B, 2014, 28, 1450073.	2.0	0
62	Alkylammonium Ions as Carriers of Metal Oxidants. Current Organic Chemistry, 2017, 21, 613-651.	1.6	0