

Dinesh O Shah

List of Publications by Year in descending order

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117
papers

6,087
citations

70961

41
h-index

74018

75
g-index

118
all docs

118
docs citations

118
times ranked

4951
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Degree, Type, and Position of Unsaturation on the pKa of Long-Chain Fatty Acids. <i>Journal of Colloid and Interface Science</i> , 2002, 256, 201-207.	5.0	439
2	Binding of metal ions to monolayers of lecithins, plasmalogen, cardiolipin, and dicetyl phosphate. <i>Journal of Lipid Research</i> , 1965, 6, 341-349.	2.0	272
3	Influence of calcium, cholesterol, and unsaturation on lecithin monolayers. <i>Journal of Lipid Research</i> , 1967, 8, 215-226.	2.0	254
4	Importance of Micellar Kinetics in Relation to Technological Processes. <i>Journal of Colloid and Interface Science</i> , 2002, 245, 1-15.	5.0	221
5	Spontaneous Emulsification: Mechanisms, Physicochemical Aspects, Modeling, and Applications. <i>Journal of Dispersion Science and Technology</i> , 2002, 23, 219-268.	1.3	196
6	A review on therapeutic contact lenses for ocular drug delivery. <i>Drug Delivery</i> , 2016, 23, 3017-3026.	2.5	178
7	Prediction of Critical Micelle Concentration Using a Quantitative Structure-Property Relationship Approach. 1. Nonionic Surfactants. <i>Langmuir</i> , 1996, 12, 1462-1470.	1.6	174
8	The ionic structure of lecithin monolayers. <i>Journal of Lipid Research</i> , 1967, 8, 227-233.	2.0	164
9	In vitro and in vivo evaluation of novel implantation technology in hydrogel contact lenses for controlled drug delivery. <i>Journal of Controlled Release</i> , 2016, 226, 47-56.	4.8	158
10	Solubilization and phase equilibria of water-in-oil microemulsions. <i>Journal of Colloid and Interface Science</i> , 1987, 120, 330-344.	5.0	153
11	Dynamic properties of micellar solutions. <i>Journal of Colloid and Interface Science</i> , 1986, 113, 484-499.	5.0	130
12	Effect of counterions on surface and foaming properties of dodecyl sulfate. <i>Journal of Colloid and Interface Science</i> , 2003, 267, 160-166.	5.0	124
13	Effect of Long Chain Alcohols on Micellar Relaxation Time and Foaming Properties of Sodium Dodecyl Sulfate Solutions. <i>Journal of Colloid and Interface Science</i> , 1998, 208, 259-265.	5.0	118
14	Predicting Surfactant Cloud Point from Molecular Structure. <i>Journal of Colloid and Interface Science</i> , 1997, 193, 132-136.	5.0	110
15	Evidence for Synergism in Nonionic Surfactant Mixtures: Enhancement of Solubilization in Water-in-Oil Microemulsions. <i>Langmuir</i> , 1997, 13, 5762-5765.	1.6	106
16	Cloud Point Phenomenon in Amphiphilic Drug Solutions. <i>Langmuir</i> , 2002, 18, 10105-10108.	1.6	102
17	Significance of the 1:3 molecular ratio in mixed surfactant systems. <i>Journal of Colloid and Interface Science</i> , 1971, 37, 744-752.	5.0	99
18	Pluronic Microemulsions as Nanoreservoirs for Extraction of Bupivacaine from Normal Saline. <i>Journal of the American Chemical Society</i> , 2004, 126, 5108-5112.	6.6	98

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19	Controlling wettability and hydrophobicity of organoclays modified with quaternary ammonium surfactants. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 493-499.	5.0	96
20	Enzymic hydrolysis of various lecithin monolayers employing surface pressure and potential technique. <i>Journal of Colloid and Interface Science</i> , 1967, 25, 107-119.	5.0	94
21	Effect of gold nanoparticles on timolol uptake and its release kinetics from contact lenses: In vitro and in vivo evaluation. <i>Acta Biomaterialia</i> , 2019, 86, 350-362.	4.1	85
22	Interaction of calcium ions with lecithin and sphingomyelin monolayers. <i>Lipids</i> , 1967, 2, 21-27.	0.7	77
23	Correlation of Particulate Dispersion Stability with the Strength of Self-Assembled Surfactant Films. <i>Langmuir</i> , 2000, 16, 7255-7262.	1.6	68
24	Optimization of a novel in situ gel for sustained ocular drug delivery using Box-Behnken design: In vitro, ex vivo, in vivo and human studies. <i>International Journal of Pharmaceutics</i> , 2019, 554, 264-275.	2.6	68
25	Extended release of hyaluronic acid from hydrogel contact lenses for dry eye syndrome. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 1035-1050.	1.9	67
26	Oil-Filled Silica Nanocapsules for Lipophilic Drug Uptake: Implications for Drug Detoxification Therapy. <i>Chemistry of Materials</i> , 2002, 14, 4919-4925.	3.2	63
27	Design and optimization of a novel implantation technology in contact lenses for the treatment of dry eye syndrome: In vitro and in vivo evaluation. <i>Acta Biomaterialia</i> , 2017, 53, 211-221.	4.1	63
28	Relationship between micellar lifetime and foamability of sodium dodecyl sulfate and sodium dodecyl sulfate/1-hexanol mixtures. <i>Langmuir</i> , 1991, 7, 1316-1318.	1.6	62
29	pH triggered controlled drug delivery from contact lenses: Addressing the challenges of drug leaching during sterilization and storage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 72-82.	2.5	61
30	Multiple drug delivery from the drug-implants-laden silicone contact lens: Addressing the issue of burst drug release. <i>Materials Science and Engineering C</i> , 2020, 112, 110885.	3.8	60
31	Effect of organic modifiers on dispersion of organoclay in polymer nanocomposites to improve mechanical properties. <i>Polymer</i> , 2016, 97, 525-532.	1.8	59
32	Stabilization of High Ionic Strength Slurries Using the Synergistic Effects of a Mixed Surfactant System. <i>Journal of Colloid and Interface Science</i> , 2000, 223, 102-111.	5.0	57
33	Contact lenses with dual drug delivery for the treatment of bacterial conjunctivitis. <i>International Journal of Pharmaceutics</i> , 2018, 548, 139-150.	2.6	57
34	Multispectral Determination of Soap Film Thickness. <i>Langmuir</i> , 1997, 13, 5995-5998.	1.6	55
35	Co-delivery of timolol and hyaluronic acid from semi-circular ring-implanted contact lenses for the treatment of glaucoma: in vitro and in vivo evaluation. <i>Biomaterials Science</i> , 2018, 6, 1580-1591.	2.6	55
36	Effect of surfactant chain length on drug release kinetics from microemulsion-laden contact lenses. <i>International Journal of Pharmaceutics</i> , 2017, 524, 193-204.	2.6	52

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37	Cyclosporine laden tailored microemulsion-gel depot for effective treatment of psoriasis: In vitro and in vivo studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110681.	2.5	50
38	Extended release of ketotifen from silica shell nanoparticle-laden hydrogel contact lenses: in vitro and in vivo evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 113.	1.7	49
39	Interaction of ionic liquid type cationic surfactants with triton X-100 nonionic micelles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 484, 547-557.	2.3	46
40	Importance of 1:3 Molecular Ratio on the Interfacial Properties of Mixed Surfactant Systems. <i>Langmuir</i> , 1999, 15, 7403-7405.	1.6	45
41	Bioavailability enhancement of repaglinide from transdermally applied nanostructured lipid carrier gel: Optimization, in vitro and in vivo studies. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 57, 101731.	1.4	44
42	Tailored gatifloxacin Pluronic® F-68-loaded contact lens: Addressing the issue of transmittance and swelling. <i>International Journal of Pharmaceutics</i> , 2020, 581, 119279.	2.6	44
43	Isolation and characterization of a lung lipoprotein surfactant. <i>Journal of Colloid and Interface Science</i> , 1969, 29, 319-334.	5.0	42
44	Surface Chemistry of Lipids1 Lamont-Doherty Geological Observatory Contribution No. 1516.. <i>Advances in Lipid Research</i> , 1970, 8, 347-431.	1.8	42
45	Interaction of uranyl ions with phospholipid and cholesterol monolayers. <i>Journal of Colloid and Interface Science</i> , 1969, 29, 210-215.	5.0	41
46	Preparation and Anesthetic Properties of Propofol Microemulsions in Rats. <i>Anesthesiology</i> , 2006, 104, 1184-1190.	1.3	40
47	A Cloud Point Study on the Micellar Growth of an Amphiphilic Drug in the Presence of Alcohol and Ionic Surfactant. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8689-8693.	1.2	39
48	The effect of cosurfactants on sodium dodecyl sulfate micellar structures at a graphite surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 272, 157-163.	2.3	39
49	Filtration of Nanoparticles with Dimethyldioctadecylammonium Bromide Treated Microporous Polypropylene Filters. <i>Langmuir</i> , 1997, 13, 1820-1826.	1.6	38
50	Plackett-Burman design for screening of critical variables and their effects on the optical transparency and swelling of gatifloxacin-Pluronic-loaded contact lens. <i>International Journal of Pharmaceutics</i> , 2019, 566, 513-519.	2.6	38
51	The ionic structure of sphingomyelin monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1967, 135, 184-187.	1.4	36
52	Influence of Induced Dipoles, Metal Ions, and Cholesterol on the Characteristics of Phospholipid Monolayers. <i>Advances in Chemistry Series</i> , 1968, , 189-209.	0.6	34
53	A novel method to quantify the amount of surfactant at the oil/water interface and to determine total interfacial area of emulsions. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 590-598.	5.0	34
54	Sustained release of venlafaxine from venlafaxine-“montmorillonite”-polyvinylpyrrolidone composites. <i>Applied Clay Science</i> , 2011, 51, 126-130.	2.6	34

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55	A novel approach for selective cross aldol condensation using reusable NaOH-cationic micellar systems. <i>Applied Catalysis A: General</i> , 2013, 466, 38-44.	2.2	33
56	Molecular mechanism of micellar catalysis of cross aldol reaction: Effect of surfactant chain length and surfactant concentration. <i>Journal of Molecular Catalysis A</i> , 2015, 396, 143-154.	4.8	33
57	Lidocaine tripotassium phosphate complex laden microemulsion for prolonged local anaesthesia: In vitro and in vivo studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110632.	2.5	33
58	Novel Poly(vinylpyrrolidone)-Coated Silicone Contact Lenses to Improve Tear Volume During Lens Wear: In Vitro and In Vivo Studies. <i>ACS Omega</i> , 2020, 5, 18148-18154.	1.6	33
59	Recent advances in ophthalmic preparations: Ocular barriers, dosage forms and routes of administration. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121105.	2.6	32
60	Extended Release of Timolol from Ethyl Cellulose Microparticles Laden Hydrogel Contact Lenses. <i>Open Pharmaceutical Sciences Journal</i> , 2015, 2, 1-12.	2.1	32
61	Treatment of Local Anesthetic-Induced Cardiotoxicity Using Drug Scavenging Nanoparticles. <i>Nano Letters</i> , 2004, 4, 757-759.	4.5	31
62	Effect of long-chain alcohols on SDS partitioning to the oil/water interface of emulsions and on droplet size. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 307-312.	5.0	31
63	Wettability measurement apparatus for porous material using the modified Washburn method. <i>Measurement Science and Technology</i> , 2013, 24, 125902.	1.4	30
64	Mechanism of organic pollutants sorption from aqueous solution by cationic tunable organoclays. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 90-99.	5.0	30
65	Stability of Sodium Dodecyl Sulfate Micelles in the Presence of a Range of Water-Soluble Polymers: A Pressure-Jump Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7133-7138.	1.2	29
66	Anesthetic Properties of a Propofol Microemulsion in Dogs. <i>Anesthesia and Analgesia</i> , 2006, 103, 882-887.	1.1	29
67	Effect of surfactants on the cloud point of amphiphilic drug solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 227, 105-111.	2.3	27
68	QSPR study of the first and second critical micelle concentrations of cationic surfactants. <i>Computers and Chemical Engineering</i> , 2009, 33, 321-332.	2.0	27
69	Advances and challenges in the nanoparticles-laden contact lenses for ocular drug delivery. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121090.	2.6	27
70	Microstructure of the CTAB-butanol-octane-water microemulsion system: effect of dissolved salts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 3585-3589.	1.7	26
71	Determination of Drug and Fatty Acid Binding Capacity to Pluronic F127 in Microemulsions. <i>Langmuir</i> , 2007, 23, 1640-1644.	1.6	26
72	Activity of microemulsion-based nanoparticles at the human bio-nano interface: concentration-dependent effects on thrombosis and hemolysis in whole blood. <i>Journal of Nanoparticle Research</i> , 2004, 6, 159-170.	0.8	25

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73	FTIR-ATR studies of water structure in reverse micelles during the synthesis of oxalate precursor nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 232, 93-99.	2.3	24
74	Oral bioavailability improvement of felodipine using tailored microemulsion: Surface science, ex vivo and in vivo studies. <i>International Journal of Pharmaceutics</i> , 2021, 596, 120202.	2.6	24
75	Tailored Doxycycline Hyclate Loaded In Situ Gel for the Treatment of Periodontitis: Optimization, In Vitro Characterization, and Antimicrobial Studies. <i>AAPS PharmSciTech</i> , 2021, 22, 77.	1.5	23
76	Correlation of Dynamic Surface Tension with Sedimentation of PTFE Particles and Water Penetration in Powders. <i>Langmuir</i> , 2015, 31, 13725-13733.	1.6	22
77	Correlation of chain length compatibility and surface properties of mixed foaming agents with fluid displacement efficiency and effective air mobility in porous media. <i>Industrial & Engineering Chemistry Fundamentals</i> , 1984, 23, 213-220.	0.7	20
78	Novel Strategy Involving Surfactant-Polymer Combinations for Enhanced Stability of Aqueous Teflon Dispersions. <i>Langmuir</i> , 2014, 30, 7077-7084.	1.6	20
79	Adsorption of nonionic Brij and Tween surfactants at PTFE-water and air-water interfaces: Investigations on wetting, dispersion stability, foaming and drug solubilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 508, 159-166.	2.3	19
80	Organobase catalysis using 1-(2-pyrimidyl)piperazine in micellar medium: an approach for better performance and reusability of organobase. <i>Green Chemistry</i> , 2016, 18, 1339-1354.	4.6	19
81	The effect of buffer ions on stearic acid monolayers in relation to foam stability. <i>Journal of Colloid and Interface Science</i> , 1970, 32, 570-576.	5.0	18
82	Surfactants and protocols to induce spontaneous emulsification and enhance detergency. <i>Journal of Surfactants and Detergents</i> , 2005, 8, 45-53.	1.0	18
83	Topical delivery of cyclosporine loaded tailored niosomal nanocarriers for improved skin penetration and deposition in psoriasis: Optimization, ex vivo and animal studies. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102441.	1.4	18
84	On thermodynamics of mixed monolayers. <i>Journal of Colloid and Interface Science</i> , 1968, 27, 319-320.	5.0	17
85	Lipid-protein interaction in monolayers. Effect of conformation of poly-L-lysine on stearic acid monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1969, 193, 217-220.	1.4	17
86	Molecular interactions in mixed monolayers: Existence of a 1:2 molecular association between stearic acid and stearyl alcohol in mixed monolayers. <i>Journal of Colloid and Interface Science</i> , 1970, 32, 577-583.	5.0	17
87	Effect of Poly(ethylene glycol)s on Micellar Stability of Sodium Dodecyl Sulfate. <i>Langmuir</i> , 2001, 17, 7233-7236.	1.6	16
88	Controlled bimatoprost release from graphene oxide laden contact lenses: In vitro and in vivo studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 208, 112096.	2.5	16
89	Alkyl chain length compatibility and solubilization in water-in-oil microemulsions. <i>Journal of Colloid and Interface Science</i> , 1986, 111, 286-287.	5.0	14
90	Effect of micellar lifetime on the wetting time of cotton in sodium dodecyl sulfate solutions. <i>Langmuir</i> , 1992, 8, 1232-1233.	1.6	14

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91	Molecular interactions in monolayers: Molecular association and foam stability of fatty acids and alcohols. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 1969, 46, 645-648.	0.8	13
92	Effect of Surfactant Concentration and Film Area on the Stability of Films of Surfactant Solutions. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 603-606.	5.0	13
93	Study on catalytic property of NaOH-cationic surfactant solutions for efficient, green and selective synthesis of flavanone. <i>Journal of Molecular Liquids</i> , 2015, 210, 151-159.	2.3	13
94	Importance of Dynamic Surface Tension to the Residual Water Content of Fabrics. <i>Langmuir</i> , 2005, 21, 10106-10111.	1.6	12
95	Effect of the Chain-Length Compatibility of Surfactants and Mechanical Properties of Mixed Micelles on Surfaces. <i>Langmuir</i> , 2006, 22, 6858-6862.	1.6	12
96	CLOUD POINT AND DYE SOLUBILIZATION STUDIES OF AMPHIPHILIC DRUG SOLUTIONS: THE EFFECT OF ELECTROLYTES AND NONELECTROLYTES. <i>Chemical Engineering Communications</i> , 2006, 193, 1065-1074.	1.5	12
97	The effects of potassium permanganate on lecithin and cholesterol monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1970, 211, 358-361.	1.4	11
98	In vitro and in vivo evaluation of cyclosporine-graphene oxide laden hydrogel contact lenses. <i>International Journal of Pharmaceutics</i> , 2022, 613, 121414.	2.6	11
99	Role of Ethylene Oxide and Propylene Oxide Groups of Pluronics in Binding of Fatty Acid to Pluronics in Microemulsions. <i>Journal of Surfactants and Detergents</i> , 2008, 11, 237-242.	1.0	9
100	Flow-directed assembly of non-spherical titania nanoparticles into superhydrophilic thin films. <i>Frontiers of Materials Science</i> , 2016, 10, 1-7.	1.1	9
101	Thermoresponsive liquid crystalline formulation of Exemestane: Design and structural characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 202, 111683.	2.5	9
102	Effect of chain length on binding of fatty acids to Pluronics in microemulsions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 62, 5-10.	2.5	8
103	The Effect on Solution Properties of Replacing a Hydrogen Atom with a Methyl Group in a Surfactant. <i>Tenside, Surfactants, Detergents</i> , 2015, 52, 369-374.	0.5	8
104	Surface and colloidal properties of chalks: A novel approach using surfactants to convert normal chalks into dustless chalks. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 236-244.	2.3	6
105	Effect of molecular weight and diffusivity on the adsorption of PEO-PPO-PEO block copolymers at PTFE-water and oil-water interfaces. <i>Colloid and Polymer Science</i> , 2018, 296, 1333-1340.	1.0	6
106	Lipid-Polymer Interaction in Monolayers: Effect of Conformation of Poly-L-Lysine on Stearic Acid Monolayers. <i>Advances in Experimental Medicine and Biology</i> , 1970, , 101-117.	0.8	6
107	Lipid-Protein Association in Lung Surfactant. <i>Advances in Experimental Medicine and Biology</i> , 1970, , 261-274.	0.8	5
108	Timolol-eluting graphene oxide laden silicone contact lens: Control release profile with improved critical lens properties. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 69, 103134.	1.4	5

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109	Synthesis of Calcium Carbonate-Coated Emulsion Droplets for Drug Detoxification. ACS Symposium Series, 2004, , 15-25.	0.5	4
110	Thromboelastographic and pharmacokinetic profiles of micro- and macro-emulsions of propofol in swine. Biopharmaceutics and Drug Disposition, 2010, 31, 269-277.	1.1	4
111	Controlled release of steroids through microporous membranes with sodium dodecyl sulfate micelles. Pharmaceutical Research, 1989, 06, 239-243.	1.7	3
112	Mass transfer studies on multiple emulsion as a controlled mass release system. Korean Journal of Chemical Engineering, 1990, 7, 163-168.	1.2	3
113	Submicellar aggregates in aqueous sodium dodecyl sulphate solutions: Investigations by dynamic light scattering and water penetration through porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 331-337.	2.3	3
114	Title is missing!. Journal of Nanoparticle Research, 2002, 4, 179-179.	0.8	1
115	Reactions and Molecular Interactions at Interfaces. , 1973, , 69-117.		1
116	Fluid displacement efficiency of in-situ foam: A mechanism of foam propagation in porous media. Journal of Petroleum Science and Engineering, 1989, 3, 209-217.	2.1	0
117	The correlation of hydrophile -lipophile balance of filters with virus desorption. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1991, 26, 711-719.	0.1	0