# Dinesh O Shah

List of Publications by Year
in descending order



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|---|---|---|---|
| 117 papers | 6,087 citations | 71102 41 h-index | 74163 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. Journal of Colloid and Interface Science, 2002, 256, 201-207. | 9.4 | 439 |
| 2 | Binding of metal ions to monolayers of lecithins, plasmalogen, cardiolipin, and dicetyl phosphate. Journal of Lipid Research, 1965, 6, 341-349. | 4.2 | 272 |
| 3 | Influence of calcium, cholesterol, and unsaturation on lecithin monolayers. Journal of Lipid Research, 1967, 8, 215-226. | 4.2 | 254 |
| 4 | Importance of Micellar Kinetics in Relation to Technological Processes. Journal of Colloid and Interface Science, 2002, 245, 1-15. | 9.4 | 221 |
| 5 | Spontaneous Emulsification: Mechanisms, Physicochemical Aspects, Modeling, and Applications. Journal of Dispersion Science and Technology, 2002, 23, 219-268. | 2.4 | 196 |
| 6 | A review on therapeutic contact lenses for ocular drug delivery. Drug Delivery, 2016, 23, 3017-3026. | 5.7 | 178 |
| 7 | Prediction of Critical Micelle Concentration Using a Quantitative Structureâˆ'Property Relationship Approach. 1. Nonionic Surfactants. Langmuir, 1996, 12, 1462-1470. | 3.5 | 174 |
| 8 | The ionic structure of lecithin monolayers. Journal of Lipid Research, 1967, 8, 227-233. | 4.2 | 164 |
| 9 | In vitro and in vivo evaluation of novel implantation technology in hydrogel contact lenses for controlled drug delivery. Journal of Controlled Release, 2016, 226, 47-56. | 9.9 | 158 |
| 10 | Solubilization and phase equilibria of water-in-oil microemulsions. Journal of Colloid and Interface Science, 1987, 120, 330-344. | 9.4 | 153 |
| 11 | Dynamic properties of micellar solutions. Journal of Colloid and Interface Science, 1986, 113, 484-499. | 9.4 | 130 |
| 12 | Effect of counterions on surface and foaming properties of dodecyl sulfate. Journal of Colloid and Interface Science, 2003, 267, 160-166. | 9.4 | 124 |
| 13 | Effect of Long Chain Alcohols on Micellar Relaxation Time and Foaming Properties of Sodium Dodecyl Sulfate Solutions. Journal of Colloid and Interface Science, 1998, 208, 259-265. | 9.4 | 118 |
| 14 | Predicting Surfactant Cloud Point from Molecular Structure. Journal of Colloid and Interface Science, 1997, 193, 132-136. | 9.4 | 110 |
| 15 | Evidence for Synergism in Nonionic Surfactant Mixtures:â€‰ Enhancement of Solubilization in Water-in-Oil Microemulsions. Langmuir, 1997, 13, 5762-5765. | 3.5 | 106 |
| 16 | Cloud Point Phenomenon in Amphiphilic Drug Solutions. Langmuir, 2002, 18, 10105-10108. | 3.5 | 102 |
| 17 | Significance of the 1:3 molecular ratio in mixed surfactant systems. Journal of Colloid and Interface Science, 1971, 37, 744-752. | 9.4 | 99 |
| 18 | Pluronic Microemulsions as Nanoreservoirs for Extraction of Bupivacaine from Normal Saline. Journal of the American Chemical Society, 2004, 126, 5108-5112. | 13.7 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Controlling wettability and hydrophobicity of organoclays modified with quaternary ammonium surfactants. Journal of Colloid and Interface Science, 2013, 407, 493-499. | 9.4 | 96 |
| 20 | Enzymic hydrolysis of various lecithin monolayers employing surface pressure and potential technique. Journal of Colloid and Interface Science, 1967, 25, 107-119. | 9.4 | 94 |
| 21 | Effect of gold nanoparticles on timolol uptake and its release kinetics from contact lenses: In vitro and in vivo evaluation. Acta Biomaterialia, 2019, 86, 350-362. | 8.3 | 85 |
| 22 | Interaction of calcium ions with lecithin and sphingomyelin monolayers. Lipids, 1967, 2, 21-27. | 1.7 | 77 |
| 23 | Correlation of Particulate Dispersion Stability with the Strength of Self-Assembled Surfactant Films. Langmuir, 2000, 16, 7255-7262. | 3.5 | 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. International Journal of Pharmaceutics, 2019, 554, 264-275. | 5.2 | 68 |
| 25 | Extended release of hyaluronic acid from hydrogel contact lenses for dry eye syndrome. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 1035-1050. | 3.5 | 67 |
| 26 | Oil-Filled Silica Nanocapsules for Lipophilic Drug Uptake:Â Implications for Drug Detoxification Therapy. Chemistry of Materials, 2002, 14, 4919-4925. | 6.7 | 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. Acta Biomaterialia, 2017, 53, 211-221. | 8.3 | 63 |
| 28 | Relationship between micellar lifetime and foamability of sodium dodecyl sulfate and sodium dodecyl sulfate/1-hexanol mixtures. Langmuir, 1991, 7, 1316-1318. | 3.5 | 62 |
| 29 | pH triggered controlled drug delivery from contact lenses: Addressing the challenges of drug leaching during sterilization and storage. Colloids and Surfaces B: Biointerfaces, 2017, 157, 72-82. | 5.0 | 61 |
| 30 | Multiple drug delivery from the drug-implants-laden silicone contact lens: Addressing the issue of burst drug release. Materials Science and Engineering C, 2020, 112, 110885. | 7.3 | 60 |
| 31 | Effect of organic modifiers on dispersion of organoclay in polymer nanocomposites to improve mechanical properties. Polymer, 2016, 97, 525-532. | 3.8 | 59 |
| 32 | Stabilization of High Ionic Strength Slurries Using the Synergistic Effects of a Mixed Surfactant System. Journal of Colloid and Interface Science, 2000, 223, 102-111. | 9.4 | 57 |
| 33 | Contact lenses with dual drug delivery for the treatment of bacterial conjunctivitis. International Journal of Pharmaceutics, 2018, 548, 139-150. | 5.2 | 57 |
| 34 | Multispectral Determination of Soap Film Thickness. Langmuir, 1997, 13, 5995-5998. | 3.5 | 55 |
| 35 | Co-delivery of timolol and hyaluronic acid from semi-circular ring-implanted contact lenses for the treatment of glaucoma:in vitroandin vivoevaluation. Biomaterials Science, 2018, 6, 1580-1591. | 5.4 | 55 |
| 36 | Effect of surfactant chain length on drug release kinetics from microemulsion-laden contact lenses. International Journal of Pharmaceutics, 2017, 524, 193-204. | 5.2 | 52 |

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| 37 | Cyclosporine laden tailored microemulsion-gel depot for effective treatment of psoriasis: In vitro and in vivo studies. Colloids and Surfaces B: Biointerfaces, 2020, 186, 110681. | 5.0 | 50 |
| 38 | Extended release of ketotifen from silica shell nanoparticle-laden hydrogel contact lenses: in vitro and in vivo evaluation. Journal of Materials Science: Materials in Medicine, 2016, 27, 113. | 3.6 | 49 |
| 39 | Interaction of ionic liquid type cationic surfactants with triton X-100 nonionic micelles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 547-557. | 4.7 | 46 |
| 40 | Importance of 1:3 Molecular Ratio on the Interfacial Properties of Mixed Surfactant Systems. Langmuir, 1999, 15, 7403-7405. | 3.5 | 45 |
| 41 | Bioavailability enhancement of repaglinide from transdermally applied nanostructured lipid carrier gel: Optimization, in vitro and in vivo studies. Journal of Drug Delivery Science and Technology, 2020, 57, 101731. | 3.0 | 44 |
| 42 | Tailored gatifloxacin PluronicÂ® F-68-loaded contact lens: Addressing the issue of transmittance and swelling. International Journal of Pharmaceutics, 2020, 581, 119279. | 5.2 | 44 |
| 43 | Isolation and characterization of a lung lipoprotein surfactant. Journal of Colloid and Interface Science, 1969, 29, 319-334. | 9.4 | 42 |
| 44 | Surface Chemistry of Lipids1 1Lamont-Doherty Geological Observatory Contribution No. 1516.. Advances in Lipid Research, 1970, 8, 347-431. | 1.8 | 42 |
| 45 | Interaction of uranyl ions with phospholipid and cholesterol monolayers. Journal of Colloid and Interface Science, 1969, 29, 210-215. | 9.4 | 41 |
| 46 | Preparation and Anesthetic Properties of Propofol Microemulsions in Rats. Anesthesiology, 2006, 104, 1184-1190. | 2.5 | 40 |
| 47 | A Cloud Point Study on the Micellar Growth of an Amphiphilic Drug in the Presence of Alcohol and Ionic Surfactant. Journal of Physical Chemistry B, 2003, 107, 8689-8693. | 2.6 | 39 |
| 48 | The effect of cosurfactants on sodium dodecyl sulfate micellar structures at a graphite surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 272, 157-163. | 4.7 | 39 |
| 49 | Filtration of Nanoparticles with Dimethyldioctadecylammonium Bromide Treated Microporous Polypropylene Filters. Langmuir, 1997, 13, 1820-1826. | 3.5 | 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. International Journal of Pharmaceutics, 2019, 566, 513-519. | 5.2 | 38 |
| 51 | The ionic structure of sphingomyelin monolayers. Biochimica Et Biophysica Acta - Biomembranes, 1967, 135, 184-187. | 2.6 | 36 |
| 52 | Influence of Induced Dipoles, Metal Ions, and Cholesterol on the Characteristics of Phospholipid Monolayers. Advances in Chemistry Series, 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. Journal of Colloid and Interface Science, 2007, 310, 590-598. | 9.4 | 34 |
| 54 | Sustained release of venlafaxine from venlafaxineâ€"montmorilloniteâ€"polyvinylpyrrolidone composites. Applied Clay Science, 2011, 51, 126-130. | 5.2 | 34 |

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| 55 | A novel approach for selective cross aldol condensation using reusable NaOH-cationic micellar systems. Applied Catalysis A: General, 2013, 466, 38-44. | 4.3 | 33 |
| 56 | Molecular mechanism of micellar catalysis of cross aldol reaction: Effect of surfactant chain length and surfactant concentration. Journal of Molecular Catalysis A, 2015, 396, 143-154. | 4.8 | 33 |
| 57 | Lidocaine tripotassium phosphate complex laden microemulsion for prolonged local anaesthesia: In vitro and in vivo studies. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110632. | 5.0 | 33 |
| 58 | Novel Poly(vinylpyrrolidone)-Coated Silicone Contact Lenses to Improve Tear Volume During Lens Wear: In Vitro and In Vivo Studies. ACS Omega, 2020, 5, 18148-18154. | 3.5 | 33 |
| 59 | Recent advances in ophthalmic preparations: Ocular barriers, dosage forms and routes of administration. International Journal of Pharmaceutics, 2021, 608, 121105. | 5.2 | 32 |
| 60 | Extended Release of Timolol from Ethyl Cellulose Microparticles Laden Hydrogel Contact Lenses. Open Pharmaceutical Sciences Journal, 2015, 2, 1-12. | 2.1 | 32 |
| 61 | Treatment of Local Anesthetic-Induced Cardiotoxicity Using Drug Scavenging Nanoparticles. Nano Letters, 2004, 4, 757-759. | 9.1 | 31 |
| 62 | Effect of long-chain alcohols on SDS partitioning to the oil/water interface of emulsions and on droplet size. Journal of Colloid and Interface Science, 2007, 315, 307-312. | 9.4 | 31 |
| 63 | Wettability measurement apparatus for porous material using the modified Washburn method. Measurement Science and Technology, 2013, 24, 125902. | 2.6 | 30 |
| 64 | Mechanism of organic pollutants sorption from aqueous solution by cationic tunable organoclays. Journal of Colloid and Interface Science, 2018, 529, 90-99. | 9.4 | 30 |
| 65 | Stability of Sodium Dodecyl Sulfate Micelles in the Presence of a Range of Water-Soluble Polymers:â€‰ A Pressure-Jump Study. Journal of Physical Chemistry B, 2001, 105, 7133-7138. | 2.6 | 29 |
| 66 | Anesthetic Properties of a Propofol Microemulsion in Dogs. Anesthesia and Analgesia, 2006, 103, 882-887. | 2.2 | 29 |
| 67 | Effect of surfactants on the cloud point of amphiphilic drug solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 227, 105-111. | 4.7 | 27 |
| 68 | QSPR study of the first and second critical micelle concentrations of cationic surfactants. Computers and Chemical Engineering, 2009, 33, 321-332. | 3.8 | 27 |
| 69 | Advances and challenges in the nanoparticles-laden contact lenses for ocular drug delivery. International Journal of Pharmaceutics, 2021, 608, 121090. | 5.2 | 27 |
| 70 | Microstructure of the CTABâ€"butanolâ€"octaneâ€"water microemulsion system: effect of dissolved salts. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3585-3589. | 1.7 | 26 |
| 71 | Determination of Drug and Fatty Acid Binding Capacity to Pluronic F127 in Microemulsions. Langmuir, 2007, 23, 1640-1644. | 3.5 | 26 |
| 72 | Activity of microemulsion-based nanoparticles at the human bio-nano interface: concentration-dependent effects on thrombosis and hemolysis in whole blood. Journal of Nanoparticle Research, 2004, 6, 159-170. | 1.9 | 25 |

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| 73 | FTIRâ€"ATR studies of water structure in reverse micelles during the synthesis of oxalate precursor nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 232, 93-99. | 4.7 | 24 |
| 74 | Oral bioavailability improvement of felodipine using tailored microemulsion: Surface science, ex vivo and in vivo studies. International Journal of Pharmaceutics, 2021, 596, 120202. | 5.2 | 24 |
| 75 | Tailored Doxycycline Hyclate Loaded In Situ Gel for the Treatment of Periodontitis: Optimization, In Vitro Characterization, and Antimicrobial Studies. AAPS PharmSciTech, 2021, 22, 77. | 3.3 | 23 |
| 76 | Correlation of Dynamic Surface Tension with Sedimentation of PTFE Particles and Water Penetration in Powders. Langmuir, 2015, 31, 13725-13733. | 3.5 | 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. Industrial & Engineering Chemistry Fundamentals, 1984, 23, 213-220. | 0.7 | 20 |
| 78 | Novel Strategy Involving Surfactantâ€"Polymer Combinations for Enhanced Stability of Aqueous Teflon Dispersions. Langmuir, 2014, 30, 7077-7084. | 3.5 | 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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 508, 159-166. | 4.7 | 19 |
| 80 | Organobase catalysis using 1-(2-pyrimidyl)piperazine in micellar medium: an approach for better performance and reusability of organobase. Green Chemistry, 2016, 18, 1339-1354. | 9.0 | 19 |
| 81 | The effect of buffer ions on stearic acid monolayers in relation to foam stability. Journal of Colloid and Interface Science, 1970, 32, 570-576. | 9.4 | 18 |
| 82 | Surfactants and protocols to induce spontaneous emulsification and enhance detergency. Journal of Surfactants and Detergents, 2005, 8, 45-53. | 2.1 | 18 |
| 83 | Topical delivery of cyclosporine loaded tailored niosomal nanocarriers for improved skin penetration and deposition in psoriasis: Optimization, ex vivo and animal studies. Journal of Drug Delivery Science and Technology, 2021, 63, 102441. | 3.0 | 18 |
| 84 | On thermodynamics of mixed monolayers. Journal of Colloid and Interface Science, 1968, 27, 319-320. | 9.4 | 17 |
| 85 | Lipid-protein interaction in monolayers. Effect of conformation of poly-l-lysine on stearic acid monolayers. Biochimica Et Biophysica Acta - Biomembranes, 1969, 193, 217-220. | 2.6 | 17 |
| 86 | Molecular interactions in mixed monolayers: Existence of a 1:2 molecular association between stearic acid and stearyl alcohol in mixed monolayers. Journal of Colloid and Interface Science, 1970, 32, 577-583. | 9.4 | 17 |
| 87 | Effect of Poly(ethylene glycol)s on Micellar Stability of Sodium Dodecyl Sulfate. Langmuir, 2001, 17, 7233-7236. | 3.5 | 16 |
| 88 | Controlled bimatoprost release from graphene oxide laden contact lenses: In vitro and in vivo studies. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112096. | 5.0 | 16 |
| 89 | Alkyl â€œchain length compatibilityâ€•and solubilization in water-in-oil microemulsions. Journal of Colloid and Interface Science, 1986, 111, 286-287. | 9.4 | 14 |
| 90 | Effect of micellar lifetime on the wetting time of cotton in sodium dodecyl sulfate solutions. Langmuir, 1992, 8, 1232-1233. | 3.5 | 14 |

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| 91 | Molecular interactions in monolayers: Molecular association and foam stability of fatty acids and alcohols. JAOCS, Journal of the American Oil Chemists' Society, 1969, 46, 645-648. | 1.9 | 13 |
| 92 | Effect of Surfactant Concentration and Film Area on the Stability of Films of Surfactant Solutions. Journal of Colloid and Interface Science, 1996, 183, 603-606. | 9.4 | 13 |
| 93 | Study on catalytic property of NaOH-cationic surfactant solutions for efficient, green and selective synthesis of flavanone. Journal of Molecular Liquids, 2015, 210, 151-159. | 4.9 | 13 |
| 94 | Importance of Dynamic Surface Tension to the Residual Water Content of Fabrics. Langmuir, 2005, 21, 10106-10111. | 3.5 | 12 |
| 95 | Effect of the Chain-Length Compatibility of Surfactants and Mechanical Properties of Mixed Micelles on Surfaces. Langmuir, 2006, 22, 6858-6862. | 3.5 | 12 |
| 96 | CLOUD POINT AND DYE SOLUBILIZATION STUDIES OF AMPHIPHILIC DRUG SOLUTIONS: THE EFFECT OF ELECTROLYTES AND NONELECTROLYTES. Chemical Engineering Communications, 2006, 193, 1065-1074. | 2.6 | 12 |
| 97 | The effects of potassium permanganate on lecithin and choleterol monolayers. Biochimica Et Biophysica Acta - Biomembranes, 1970, 211, 358-361. | 2.6 | 11 |
| 98 | In vitro and in vivo evaluation of cyclosporine-graphene oxide laden hydrogel contact lenses. International Journal of Pharmaceutics, 2022, 613, 121414. | 5.2 | 11 |
| 99 | Role of Ethylene Oxide and Propylene Oxide Groups of Pluronics in Binding of Fatty Acid to Pluronics in Microemulsions. Journal of Surfactants and Detergents, 2008, 11, 237-242. | 2.1 | 9 |
| 100 | Flow-directed assembly of non-spherical titania nanoparticles into superhydrophilic thin films. Frontiers of Materials Science, 2016, 10, 1-7. | 2.2 | 9 |
| 101 | Thermoresponsive liquid crystalline formulation of Exemestane: Design and structural characterization. Colloids and Surfaces B: Biointerfaces, 2021, 202, 111683. | 5.0 | 9 |
| 102 | Effect of chain length on binding of fatty acids to Pluronics in microemulsions. Colloids and Surfaces B: Biointerfaces, 2008, 62, 5-10. | 5.0 | 8 |
| 103 | The Effect on Solution Properties of Replacing a Hydrogen Atom with a Methyl Group in a Surfactant. Tenside, Surfactants, Detergents, 2015, 52, 369-374. | 1.2 | 8 |
| 104 | Surface and colloidal properties of chalks: A novel approach using surfactants to convert normal chalks into dustless chalks. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 236-244. | 4.7 | 6 |
| 105 | Effect of molecular weight and diffusivity on the adsorption of PEO-PPO-PEO block copolymers at PTFE-water and oil-water interfaces. Colloid and Polymer Science, 2018, 296, 1333-1340. | 2.1 | 6 |
| 106 | Lipid-Polymer Interaction in Monolayers: Effect of Conformation of Poly-L-Lysine on Stearic Acid Monolayers. Advances in Experimental Medicine and Biology, 1970, , 101-117. | 1.6 | 6 |
| 107 | Lipid-Protein Association in Lung Surfactant. Advances in Experimental Medicine and Biology, 1970, , 261-274. | 1.6 | 5 |
| 108 | Timolol-eluting graphene oxide laden silicone contact lens: Control release profile with improved critical lens properties. Journal of Drug Delivery Science and Technology, 2022, 69, 103134. | 3.0 | 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 microâ€•and macroâ€•emulsions of propofol in swine. Biopharmaceutics and Drug Disposition, 2010, 31, 269-277. | 1.9 | 4 |
| 111 | Controlled release of steroids through microporous membranes with sodium dodecyl sulfate micelles. Pharmaceutical Research, 1989, 06, 239-243. | 3.5 | 3 |
| 112 | Mass transfer studies on multiple emulsion as a controlled mass release system. Korean Journal of Chemical Engineering, 1990, 7, 163-168. | 2.7 | 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. | 4.7 | 3 |
| 114 | Title is missing!. Journal of Nanoparticle Research, 2002, 4, 179-179. | 1.9 | 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. | 4.2 | 0 |
| 117 | The correlation of hydrophile â€•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 |