# Dieter Vollhardt

List of Publications by Year
in descending order



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|---|---|---|---|
| 142 papers | 4,170 citations | 101384 36 h-index | 155451 55 g-index |
| 144 all docs | 144 docs citations | 144 times ranked | 1642 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Morphology and phase behavior of monolayers. Advances in Colloid and Interface Science, 1996, 64, 143-171. | 7.0 | 192 |
| 2 | Effect of Molecular Chirality on the Morphology of Biomimetic Langmuir Monolayers. Chemical Reviews, 2003, 103, 4033-4076. | 23.0 | 185 |
| 3 | Equations of State for Langmuir Monolayers with Two-Dimensional Phase Transitions. Journal of Physical Chemistry B, 1999, 103, 145-150. | 1.2 | 112 |
| 4 | Phase Transition in Adsorption Layers at the Airâ^'Water Interface:Â Bridging to Langmuir Monolayers. Journal of Physical Chemistry B, 1997, 101, 3370-3375. | 1.2 | 100 |
| 5 | Formation of Condensed Phase Patterns in Adsorption Layers. Physical Review Letters, 1996, 76, 3770-3773. | 2.9 | 95 |
| 6 | Thermodynamic and Textural Characterization of DPPG Phospholipid Monolayers. Journal of Physical Chemistry B, 2000, 104, 4115-4121. | 1.2 | 90 |
| 7 | Penetration of dissolved amphiphiles into two-dimensional aggregating lipid monolayers. Advances in Colloid and Interface Science, 2000, 86, 103-151. | 7.0 | 84 |
| 8 | Brewster angle microscopy: A preferential method for mesoscopic characterization of monolayers at the air/water interface. Current Opinion in Colloid and Interface Science, 2014, 19, 183-197. | 3.4 | 84 |
| 9 | Dynamic and Equilibrium Surface Pressure of Adsorbed Dodecanol Monolayers at the Air/Water Interface. Journal of Physical Chemistry B, 2000, 104, 8536-8543. | 1.2 | 82 |
| 10 | Relating Lattice and Domain Structures of Monoglyceride Monolayers. The Journal of Physical Chemistry, 1995, 99, 8758-8762. | 2.9 | 80 |
| 11 | Long-range tilt orientational order in phospholipid monolayers: a comparative study. Biophysical Journal, 1996, 70, 2758-2766. | 0.2 | 79 |
| 12 | Long range tilt orientational order in phospholipid monolayers: a comparison of the order in the condensed phases of dimyristoylphosphatidylethanolamine and dipalmitoylphosphatidylcholine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 100, 187-202. | 2.3 | 77 |
| 13 | Equation of State for Insoluble Monolayers of Aggregating Amphiphilic Molecules. The Journal of Physical Chemistry, 1996, 100, 15478-15482. | 2.9 | 74 |
| 14 | Characterisation of phase transition in adsorbed monolayers at the air/water interface. Advances in Colloid and Interface Science, 2010, 154, 1-19. | 7.0 | 71 |
| 15 | Morphological Features in 1-Monoglyceride Monolayers. Journal of Colloid and Interface Science, 1995, 174, 392-399. | 5.0 | 70 |
| 16 | Similarities in the Phase Properties of Gibbs and Langmuir Monolayers. Journal of Physical Chemistry B, 1998, 102, 591-597. | 1.2 | 66 |
| 17 | Temperature-dependent studies of the phase behaviour of 1-monostearoyl-rac-glycerol monolayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 76, 187-195. | 2.3 | 62 |
| 18 | Inner Structure of Condensed Phase Domains in Monolayers at the Air-Water Interface. Langmuir, 1995, 11, 864-871. | 1.6 | 58 |

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| 19 | Nonequilibrium Structures in 1-Monopalmitoyl-rac-glycerol Monolayers. Langmuir, 1997, 13, 277-282. | 1.6 | 58 |
| 20 | Chiral Discrimination in Monolayers of Monoglycerides. Langmuir, 1996, 12, 4892-4896. | 1.6 | 53 |
| 21 | Coadsorption of sodium dodecyl sulfate and medium-chain alcohols at the airâ€“water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 161, 173-182. | 2.3 | 53 |
| 22 | Disorder in Langmuir Monolayers. 1. Disordered Packing of Alkyl Chains. Langmuir, 1998, 14, 6485-6492. | 1.6 | 49 |
| 23 | Dynamics and Phase Transition in Adsorbed Monolayers of Sodium Dodecyl Sulfate/Dodecanol Mixtures. Journal of Physical Chemistry B, 2001, 105, 4324-4330. | 1.2 | 49 |
| 24 | Quantum Chemical Analysis of the Thermodynamics of 2D Cluster Formation of Oddn-Alcohols at the Air/Water Interface. Journal of Physical Chemistry B, 2002, 106, 11285-11294. | 1.2 | 46 |
| 25 | Dendritic Crystal Growth in N-Dodecylgluconamide Monolayers at the Air-Water Interface. Langmuir, 1995, 11, 2661-2668. | 1.6 | 45 |
| 26 | Structure formation and phase transitions in Gibbs and Langmuir monolayers of amphiphilic acid amides. Physical Review E, 1998, 57, 901-907. | 0.8 | 45 |
| 27 | Phase Transition in Adsorbed Monolayers of Sodium Dodecyl Sulfate/Dodecanol Mixtures. Journal of Physical Chemistry B, 2001, 105, 12061-12067. | 1.2 | 45 |
| 28 | Texture features of long-chain fatty acid monolayers at high pH of the aqueous subphase. Materials Science and Engineering C, 1999, 8-9, 35-42. | 3.8 | 44 |
| 29 | Brewster Angle Microscopy and X-ray GID Studies of Morphology and Crystal Structure in Monolayers of N-Tetradecyl-Î³,Î´-dihydroxypentanoic Acid Amide. Journal of Physical Chemistry B, 1997, 101, 4752-4758. | 1.2 | 43 |
| 30 | Effect of Unsaturation in Fatty Acids on the Main Characteristics of Langmuir Monolayers. Journal of Physical Chemistry C, 2007, 111, 6805-6812. | 1.5 | 43 |
| 31 | Relating Domain Morphology and Lattice Structure in Monolayers of Glycerol Amide Lipids. Langmuir, 1998, 14, 2112-2118. | 1.6 | 40 |
| 32 | Molecular Interactions in Amphiphilic Assemblies: Theoretical Perspective. Accounts of Chemical Research, 2007, 40, 351-360. | 7.6 | 40 |
| 33 | Effects of dodecanol on the adsorption kinetics of SDS at the waterâ€“hexane interface. Journal of Colloid and Interface Science, 2010, 351, 537-541. | 5.0 | 40 |
| 34 | Quantum Chemical Analysis of the Thermodynamics of 2D Cluster Formation ofn-Carboxylic Acids at the Air/Water Interface. Journal of Physical Chemistry B, 2006, 110, 4717-4730. | 1.2 | 38 |
| 35 | Quantum Chemical Analysis of Thermodynamics of the Two-Dimensional Cluster Formation at the Air/Water Interface. Journal of Physical Chemistry B, 2002, 106, 121-131. | 1.2 | 37 |
| 36 | Kinetics of two-dimensional phase transition of amphiphilic monolayers at the air/water interface. Journal of Chemical Physics, 1997, 107, 243-251. | 1.2 | 36 |

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| 37 | Characteristic Features of Hydroxystearic Acid Monolayers at the Air/Water Interface. Journal of Physical Chemistry B, 2004, 108, 17448-17456. | 1.2 | 34 |
| 38 | Chiral Discrimination Effects in Langmuir Monolayers:Â Monolayers of Palmitoyl Aspartic Acid,N-Stearoyl Serine Methyl Ester, andN-Tetradecyl-Î³,Î´-dihydroxypentanoic Acid Amide. Journal of Physical Chemistry B, 2003, 107, 3464-3475. | 1.2 | 33 |
| 39 | Arachidic Acid Monolayers at High pH of the Aqueous Subphase:Â Studies of Counterion Bonding. Langmuir, 2000, 16, 7731-7736. | 1.6 | 32 |
| 40 | Chiral Discrimination Effects in Langmuir Monolayers of 1-O-Hexadecyl Glycerol. Journal of Physical Chemistry B, 2004, 108, 327-335. | 1.2 | 31 |
| 41 | Effect of isomeric alcohols as a minor component on the adsorption properties of aqueous sodium alkyl sulfate solutions. Langmuir, 1990, 6, 317-322. | 1.6 | 30 |
| 42 | Thermally Induced Domain Growth in Fatty Acid Ester Monolayers. Journal of Colloid and Interface Science, 1995, 173, 429-435. | 5.0 | 30 |
| 43 | Long Range Tilt Orientational Order in Fatty Acid Ethyl Ester Monolayers. Langmuir, 1996, 12, 5114-5119. | 1.6 | 30 |
| 44 | Role of Electrostatic Interactions for the Domain Shapes of Langmuir Monolayers of Monoglycerol Amphiphiles. Journal of Physical Chemistry B, 2005, 109, 10820-10829. | 1.2 | 30 |
| 45 | Quantum Chemical Analysis of the Thermodynamics of 2-Dimensional Cluster Formation of Alkylamines at the Air/Water Interface. Journal of Physical Chemistry C, 2007, 111, 15342-15349. | 1.5 | 30 |
| 46 | Comparing Molecular Packing and Textures of Langmuir Monolayers of Fatty Acids and Their Methyl and Ethyl Esters. Journal of Physical Chemistry B, 1998, 102, 148-153. | 1.2 | 29 |
| 47 | Shifting of Fatty Acid Monolayer Phases Due to Ionization of the Headgroups. Langmuir, 2001, 17, 4569-4580. | 1.6 | 29 |
| 48 | The phase behavior of an ether lipid monolayer compared with an ester lipid monolayer. , 1994, , 302-306. | | 28 |
| 49 | Atomic Force Microscopy Study of the Texture of Condensed Phase Domains in 1-Monostearoylglycerol Monolayers. Langmuir, 1998, 14, 1815-1821. | 1.6 | 28 |
| 50 | Chiral Discrimination in 1-Stearylamine-Glycerol Monolayers. Journal of Physical Chemistry B, 2002, 106, 4419-4423. | 1.2 | 28 |
| 51 | Quantum chemical semi-empirical approach to the thermodynamic characteristics of oligomers and large aggregates of alcohols at the water/air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 209, 1-14. | 2.3 | 28 |
| 52 | Nonequilibrium Domain Growth in Fatty Acid Ethyl Ester Monolayers. Langmuir, 1997, 13, 1623-1628. | 1.6 | 27 |
| 53 | Quantum Chemical Semiempirical Approach to the Structural and Thermodynamic Characteristics of Fluoroalkanols at the Air/Water Interface. Journal of Physical Chemistry B, 2005, 109, 454-462. | 1.2 | 27 |
| 54 | Zur Herstellung und Charakterisierung von erenzflÃchenchemisch reinem Natrium-dodecylsuliat. Tenside, Surfactants, Detergents, 1981, 18, 320-327. | 0.5 | 27 |

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| 55 | Microscopic study of chiral interactions in langmuir monolayer: monolayers of N-palmitoyl aspartic acid and N-stearoyl serine methyl ester. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 183-185, 67-83. | 2.3 | 26 |
| 56 | Molecular Origin of the Chiral Interaction in Biomimetic Systems:Â Dipalmitoylphosphatidylcholine Langmuir Monolayer. Journal of Physical Chemistry B, 2002, 106, 10144-10149. | 1.2 | 26 |
| 57 | Prediction of the handedness of the chiral domains of amphiphilic monolayers: monolayers of amino acid amphiphiles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 207-221. | 2.3 | 26 |
| 58 | Interfacial Molecular Recognition of Dissolved Thymine by Medium Chain Dialkyl Melamine-Type Monolayers. Journal of Physical Chemistry B, 2005, 109, 10849-10857. | 1.2 | 26 |
| 59 | Quantum-Chemical Analysis of Thermodynamics of Two-Dimensional Cluster Formation of Î±-Amino Acids at the Air/Water Interface. Journal of Physical Chemistry B, 2009, 113, 16557-16567. | 1.2 | 26 |
| 60 | Nanoaggregate shapes at the air/water interface. Physical Chemistry Chemical Physics, 2011, 13, 4812. | 1.3 | 26 |
| 61 | Influence of small quantities of isomeric alcohols on the surface tension behavior of aqueous sodium alkyl sulfate solutions. Colloids and Surfaces, 1984, 11, 209-217. | 0.9 | 25 |
| 62 | Structure features and phase behaviour of amphiphilic N-tetradecyl-Î²-hydroxy-propionic acid amide monolayers. Supramolecular Science, 1997, 4, 391-397. | 0.7 | 25 |
| 63 | Quantum Chemical Analysis of Thermodynamics of 2D Cluster Formation of n-Thioalcohols at the Air/Water Interface. Journal of Physical Chemistry C, 2007, 111, 5374-5381. | 1.5 | 25 |
| 64 | Molecular Packing and Textures of 1-Stearylamine-rac-glycerol Monolayers. Langmuir, 2002, 18, 688-693. | 1.6 | 24 |
| 65 | Thermodynamic and Structural Characterization of Amphiphilic Melamine-type Monolayers. Journal of Physical Chemistry B, 2005, 109, 11706-11711. | 1.2 | 24 |
| 66 | Surface pK<sub>a</sub> of Saturated Carboxylic Acids at the Air/Water Interface: A Quantum Chemical Approach. Journal of Physical Chemistry C, 2020, 124, 13809-13818. | 1.5 | 24 |
| 67 | Structural effect on the adsorption properties of aqueous solutions of straight-chain and cyclic dodecyl sulfates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 76, 217-225. | 2.3 | 23 |
| 68 | Phase Transition in Monolayers of Straight Chain and 2-Methyl Branched Alcohols at the Airâ^'Water Interface. Langmuir, 2002, 18, 6571-6577. | 1.6 | 23 |
| 69 | Effect of Hydroxyl Group Position and System Parameters on the Features of Hydroxystearic Acid Monolayers. Langmuir, 2004, 20, 7670-7677. | 1.6 | 23 |
| 70 | Surface Pressure Isotherm for the Fluid State of Langmuir Monolayers. Journal of Physical Chemistry B, 2006, 110, 10436-10440. | 1.2 | 23 |
| 71 | Monolayer Characteristics of a Long-Chain N,O-Diacyl Substituted Ethanolamine at the Air/Water Interface. Langmuir, 2011, 27, 5386-5392. | 1.6 | 23 |
| 72 | Quantum Chemical Analysis of the Thermodynamics of 2D Cluster Formation of Aliphatic Amides at the Air/Water Interface. Journal of Physical Chemistry C, 2012, 116, 26358-26376. | 1.5 | 23 |

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| 73 | Anomalous Temperature Dependence of Domain Shape in Langmuir Monolayers:Â Role of Dipolar Interaction. Journal of Physical Chemistry B, 2004, 108, 18793-18795. | 1.2 | 22 |
| 74 | Thermodynamics of the Clusterization Process of Cis Isomers of Unsaturated Fatty Acids at the Air/Water Interface. Journal of Physical Chemistry B, 2009, 113, 4347-4359. | 1.2 | 22 |
| 75 | Correlation between the microscopic and mesoscopic chirality in Langmuir monolayers. Thin Solid Films, 2003, 433, 12-21. | 0.8 | 21 |
| 76 | Characteristic Features of Amphiphilic P-Functionalized Calixarene Monolayers at the Air/Water Interface. Langmuir, 2003, 19, 4228-4234. | 1.6 | 21 |
| 77 | Structural Features of Mixed Monolayers of Oleanolic Acid and Stearic Acid. Journal of Physical Chemistry C, 2008, 112, 15777-15783. | 1.5 | 21 |
| 78 | Quantum-Chemical Analysis of Thermodynamics of Two-Dimensional Cluster Formation of Racemic Î±-Amino Acids at the Air/Water Interface. Journal of Physical Chemistry B, 2011, 115, 2264-2281. | 1.2 | 21 |
| 79 | Line tension and domain shapes in insoluble monolayers of fatty alcohols. Thin Solid Films, 1996, 284-285, 424-427. | 0.8 | 20 |
| 80 | On Hexagonal Orientation of Fatty Alcohols in Monolayers at the Air/Water Interface: Quantum-Chemical Approach. Journal of Physical Chemistry C, 2014, 118, 4122-4130. | 1.5 | 20 |
| 81 | Kinetics of Two-Dimensional Phase Transition of Langmuir Monolayers. Journal of Physical Chemistry B, 2002, 106, 345-351. | 1.2 | 19 |
| 82 | Effect of the Exchange of Substituent Position in an Amide Amphiphile on the Monolayer Characteristics. Journal of Physical Chemistry B, 2006, 110, 14881-14889. | 1.2 | 19 |
| 83 | Quantum-Chemical Description of the Thermodynamic Characteristics of Clusterization of Melamine-type Amphiphiles at the Air/Water Interface. Journal of Physical Chemistry B, 2009, 113, 13235-13248. | 1.2 | 19 |
| 84 | Phase transitions in adsorption layers: comparison with Langmuir monolayers. Progress in Colloid and Polymer Science, 1997, 105, 130-137. | 0.5 | 18 |
| 85 | Phase Transitions and Structures in Monolayers of Water Soluble and Insoluble Amphiphilic Acid Amides. Chemical Engineering and Technology, 1998, 21, 44-48. | 0.9 | 16 |
| 86 | Mixed Stearoyl-rac-glycerol/12-(Hydroxy)stearoyl-rac-glycerol Monolayers on the Air/Water Interface:Â Brewster Angle Microscopy and Grazing Incidence X-ray Diffraction Investigation. Journal of Physical Chemistry B, 2000, 104, 8704-8711. | 1.2 | 16 |
| 87 | Recognition and Dissociation Kinetics in the Interfacial Molecular Recognition of Barbituric Acid by Amphiphilic Melamine-Type Monolayers. Journal of Physical Chemistry B, 2007, 111, 8283-8289. | 1.2 | 16 |
| 88 | Monolayer Characteristics of an N-Acylated Ethanolamine at the Air/Water Interface. Journal of Physical Chemistry C, 2011, 115, 8206-8213. | 1.5 | 16 |
| 89 | Quantum chemical analysis of the thermodynamics of 2D cluster formation of 2-hydroxycarboxylic acids at the air/water interface. Soft Matter, 2013, 9, 7601. | 1.2 | 16 |
| 90 | The quantum-chemical approach to calculations of thermodynamic and structural parameters of formation of fatty acid monolayers with hexagonal packing at the air/water interface. Physical Chemistry Chemical Physics, 2014, 16, 3187. | 1.3 | 16 |

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| 91 | Phase transition in adsorption layers at the airâ€“water interface: structure features of the condensed phase. Thin Solid Films, 1998, 327-329, 842-845. | 0.8 | 15 |
| 92 | Structure Features and Phase Behavior of 1-(12-Hydroxy)stearoyl-rac-glycerol Monolayers. Journal of Physical Chemistry B, 2004, 108, 3781-3788. | 1.2 | 15 |
| 93 | Model Studies of the Interfacial Ordering of Oleanolic Acid in the Cuticula. ChemPhysChem, 2008, 9, 1670-1672. | 1.0 | 15 |
| 94 | Temperature Effect on the Monolayer Formation of Substituted Alkanes at the Air/Water Interface: A Quantum Chemical Approach. Journal of Physical Chemistry B, 2012, 116, 8996-9006. | 1.2 | 15 |
| 95 | Monolayer Characteristics of 1-Monostearoyl-rac-glycerol at the Airâ€“Water Interface. Journal of Physical Chemistry C, 2015, 119, 9934-9946. | 1.5 | 15 |
| 96 | Simplified method of the quantum chemical analysis for determination of thermodynamic parameters of 2D cluster formation of amphiphilic compounds at the air/water interface. Journal of Colloid and Interface Science, 2008, 326, 339-346. | 5.0 | 14 |
| 97 | Equation of State for the Phase Coexistence Region of Insoluble Monolayers under Consideration of the Entropy Nonideality. Journal of Physical Chemistry B, 2008, 112, 1477-1481. | 1.2 | 14 |
| 98 | Grazing Incidence Diffraction and Brewster-Angle Microscope Studies of Mixtures of Hexadecanoic Acid and Methyl Hexadecanoate:â€‰ The Unexpected Appearance of a Phase with Nearest-Neighbor Tilt. Journal of Physical Chemistry B, 2000, 104, 10053-10058. | 1.2 | 13 |
| 99 | Thermodynamics of the Clusterization Process of trans-Isomers of Unsaturated Fatty Acids at the Air/Water Interface. Journal of Physical Chemistry B, 2012, 116, 2173-2182. | 1.2 | 13 |
| 100 | Phase Characteristics of 1-Monopalmitoyl-rac-glycerol Monolayers at the Air/Water Interface. Langmuir, 2016, 32, 7316-7325. | 1.6 | 13 |
| 101 | Cross-Sectional Area Increase at Phase Transition on Compression: An Unexpected Phenomenon Observed in an Amide Monolayer. Journal of Physical Chemistry C, 2010, 114, 15695-15702. | 1.5 | 11 |
| 102 | Transition State for Aggregation and Reorganization of Normal Fatty Alcohols at the Air/Water Interface. Journal of Physical Chemistry B, 2004, 108, 8330-8337. | 1.2 | 10 |
| 103 | Equation of State for Monolayers with Additional Phase Transition between Condensed Phases of Different Compressibility. Journal of Physical Chemistry B, 2009, 113, 6311-6313. | 1.2 | 10 |
| 104 | A quantum chemical model for assessment of the temperature dependence in monolayer formation of amphiphiles at the air/water interface. Physical Chemistry Chemical Physics, 2013, 15, 11623. | 1.3 | 10 |
| 105 | Effect of chirality on monoacylglycerol ester monolayer characteristics: 3-Monopalmitoyl- sn -glycerol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 521, 281-293. | 2.3 | 10 |
| 106 | Relationship between the Bulk and Surface Basicity of Aliphatic Amines: A Quantum Chemical Approach. ACS Omega, 2020, 5, 32032-32039. | 1.6 | 10 |
| 107 | Texture Change Separate from the Transition between Two Tilted Phases in Langmuir Monolayers. Journal of Physical Chemistry B, 1998, 102, 1224-1228. | 1.2 | 9 |
| 108 | On the inclusion of alkanes into the monolayer of aliphatic alcohols at the water/alkane vapor interface: a quantum chemical approach. Physical Chemistry Chemical Physics, 2013, 15, 2159. | 1.3 | 9 |

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| 109 | Special features of monolayer characteristics of N-alkanoyl substituted threonine amphiphiles. Physical Chemistry Chemical Physics, 2019, 21, 96-103. | 1.3 | 9 |
| 110 | Thermodynamics of two-dimensional cluster formation at the water/air interface. A quantum chemical approach. , 2002, , 72-75. | | 9 |
| 111 | Morphology and growth of condensed phase structures in N-alkyl-aldonamide monolayers using brewster angle microscopy. , 1995, , 266-268. | | 8 |
| 112 | Ordering in Langmuir monolayers of branched chain phospholipids. Materials Science and Engineering C, 1999, 8-9, 3-11. | 3.8 | 8 |
| 113 | Morphology and phase behaviour of monoglyceride monolayers on aqueous sugar substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 171, 49-57. | 2.3 | 8 |
| 114 | Molecular pair potential of chiral amino acid amphiphile in Langmuir monolayers on the basis of an atomistic model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 250, 279-287. | 2.3 | 8 |
| 115 | Chiral Discrimination in Stearoyl Amine Glycerol Monolayers. Langmuir, 2008, 24, 9489-9494. | 1.6 | 8 |
| 116 | Quantization of the Molecular Tilt Angle of Amphiphile Monolayers at the Air/Water Interface. Journal of Physical Chemistry C, 2015, 119, 5523-5533. | 1.5 | 8 |
| 117 | Theoretical description of 2D-cluster formation of nonionic surfactants at the air/water interface. Colloid and Polymer Science, 2015, 293, 3065-3089. | 1.0 | 7 |
| 118 | Effect of chirality on monoacylglycerol ester monolayer characteristics: 3-monostearoyl-sn-glycerol. Physical Chemistry Chemical Physics, 2017, 19, 7009-7024. | 1.3 | 7 |
| 119 | Alkanolspuren in Natriumalkylsulfaten: Nachweis und Bedeutung fÃ¼r die Adsorptionseigenschaften/ Alkanol Traces in Sodium Alkyl Sulfates: Detection and Importance forthe Adsorption Properties. Tenside, Surfactants, Detergents, 1993, 30, 349-355. | 0.5 | 7 |
| 120 | Dominance of long-chain N,O-diacylated ethanolamine in mixed amphiphilic acid amide monolayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 391, 2-9. | 2.3 | 6 |
| 121 | Helfrich's concept of intrinsic force and its molecular origin in bilayers and monolayers. Advances in Colloid and Interface Science, 2014, 208, 110-120. | 7.0 | 6 |
| 122 | Quantum chemical analysis of thermodynamics of 2D cluster formation of alkanes at the water/vapor interface in the presence of aliphatic alcohols. Physical Chemistry Chemical Physics, 2015, 17, 28901-28920. | 1.3 | 6 |
| 123 | Quantum-chemical analysis of condensed monolayer phases of N-alkanoyl-substituted alanine at the air/water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 346-359. | 2.3 | 6 |
| 124 | Analysis of Temperature and Alkyl Chain Length Impacts on the Morphological Peculiarities of Nonionic Surfactant Clusterization. A Quantum Chemical Approach. Journal of Physical Chemistry C, 2015, 119, 18404-18413. | 1.5 | 5 |
| 125 | Effect of the Alkanoyl Group Position at the Glycerol Backbone on the Monolayer Characteristics Demonstrated by 2-Monopalmitoyl-rac-glycerol. Langmuir, 2017, 33, 12559-12568. | 1.6 | 5 |
| 126 | Theoretical Description of Mixed Film Formation at the Air/Water Interface: Carboxylic Acidsâ€“Alcohols. ACS Omega, 2018, 3, 16693-16705. | 1.6 | 5 |

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| 127 | Mesoscopic characterization of amphiphilic monoglycerol monolayers. Advances in Colloid and Interface Science, 2018, 258, 36-46. | 7.0 | 5 |
| 128 | Adsorption kinetic characterization of the effect of surface-active trace components in aqueous solutions of surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 76, 203-215. | 2.3 | 4 |
| 129 | Two-Dimensional Miscibility Behavior of Two Chemically Similar Amide Amphiphiles. Journal of Physical Chemistry C, 2012, 116, 6268-6274. | 1.5 | 4 |
| 130 | Phases and phase transition in insoluble and adsorbed monolayers of amide amphiphiles: Specific Characteristics of the condensed phases. Advances in Colloid and Interface Science, 2015, 222, 728-742. | 7.0 | 4 |
| 131 | Quantum-chemical analysis of hexagonal crystalline monolayers of ethoxylated nonionic surfactants at the air/water interface. Physical Chemistry Chemical Physics, 2014, 16, 25129-25142. | 1.3 | 3 |
| 132 | Theoretical Description of Mixed Film Formation at the Air/Water Interface: Carboxylic Acidsâ€“Fatty Amines. Journal of Physical Chemistry C, 2020, 124, 1544-1553. | 1.5 | 3 |
| 133 | Influence of Stereochemistry on the Monolayer Characteristics of N-alkanoyl-Substituted Threonine and Serine Amphiphiles at the Airâ€“Water Interface. Langmuir, 2021, 37, 9069-9077. | 1.6 | 3 |
| 134 | Superposition-additive approach in the description of thermodynamic parameters of formation and clusterization of substituted alkanes at the air/water interface. Journal of Colloid and Interface Science, 2012, 387, 162-174. | 5.0 | 2 |
| 135 | Synchrotron-Based X-ray Methods as Powerful Tools for the Characterization of Monolayers at the Air/Liquid Interface. ACS Symposium Series, 2015, , 377-419. | 0.5 | 2 |
| 136 | Lattice structures and phase behavior of amphiphilic monoglycerol monolayers. Advances in Colloid and Interface Science, 2019, 273, 102030. | 7.0 | 2 |
| 137 | Influence of linkage type (ether or ester) on the monolayer characteristics of single-chain glycerols at the airâ€“water interface. Physical Chemistry Chemical Physics, 2020, 22, 23207-23214. | 1.3 | 2 |
| 138 | Lattice and thermodynamic characteristics of N-stearoyl-allo-threonine monolayers. Physical Chemistry Chemical Physics, 2020, 22, 2783-2791. | 1.3 | 2 |
| 139 | Quantum chemical assessment of the molecular area corresponding to the onset of the LEâ€“LC phase transition for amphiphilic 2D monolayers at the air/water interface. Physical Chemistry Chemical Physics, 2021, 23, 25356-25364. | 1.3 | 2 |
| 140 | Molecular area dependences of monolayers at the air/water interface. Jcis Open, 2022, 7, 100057. | 1.5 | 2 |
| 141 | PhasenÃ¼bergÃnge und Strukturen von Monoschichten wasserlÃ¶slicher und wasserunlÃ¶slicher amphiphiler SÃureamide. Chemie-Ingenieur-Technik, 1998, 70, 275-279. | 0.4 | 1 |
| 142 | Quantum chemical clarification of the alkyl chain length threshold of nonionic surfactants for monolayer formation at the air/water interface. Physical Chemistry Chemical Physics, 2016, 18, 7932-7937. | 1.3 | 1 |