Xuezhong Du

List of Publications by Year
in descending order

70	2,610	29	50
papers	citations	h-index (172457)	g-index (189892)

73	73	73	3782
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sensitive electrochemical sensors for simultaneous determination of ascorbic acid, dopamine, and uric acid based on Au@Pd-reduced graphene oxide nanocomposites. Nanoscale, 2014, 6, 11303-11309.	5.6	213
2	Molybdenum disulfide nanosheets supported Au-Pd bimetallic nanoparticles for non-enzymatic electrochemical sensing of hydrogen peroxide and glucose. Sensors and Actuators B: Chemical, 2017, 239, 536-543.	7.8	144
3	Glucoseâ€•and pHâ€Responsive Controlled Release of Cargo from Proteinâ€Gated Carbohydrateâ€Functionalized Mesoporous Silica Nanocontainers. Angewandte Chemie - International Edition, 2013, 52, 5580-5584.	13.8	136
4	Nitrite electrochemical biosensing based on coupled graphene and gold nanoparticles. Biosensors and Bioelectronics, 2014, 51, 343-348.	10.1	135
5	Supramolecular Vesicles Coassembled from Disulfideâ€Linked Benzimidazolium Amphiphiles and Carboxylateâ€Substituted Pillar[6]arenes that Are Responsive to Five Stimuli. Angewandte Chemie - International Edition, 2017, 56, 2655-2659.	13.8	99
6	Synthesis and application of surface enhanced Raman scattering (SERS) tags of Ag@SiO2 core/shell nanoparticles in protein detection. Journal of Materials Chemistry, 2012, 22, 7767.	6.7	90
7	pH- and redox-triggered synergistic controlled release of a ZnO-gated hollow mesoporous silica drug delivery system. Journal of Materials Chemistry B, 2015, 3, 1426-1432.	5.8	76
8	Creating Protein-Imprinted Self-Assembled Monolayers with Multiple Binding Sites and Biocompatible Imprinted Cavities. Journal of the American Chemical Society, 2013, 135, 9248-9251.	13.7	73
9	Phosphonated Pillar[5]arene-Valved Mesoporous Silica Drug Delivery Systems. ACS Applied Materials & Interfaces, 2017, 9, 19638-19645.	8.0	72
10	Gated mesoporous carbon nanoparticles as drug delivery system for stimuli-responsive controlled release. Carbon, 2016, 101, 135-142.	10.3	70
11	pH- and competitor-driven nanovalves of cucurbit[7]uril pseudorotaxanes based on mesoporous silica supports for controlled release. Journal of Materials Chemistry, 2010, 20, 3642.	6.7	68
12	Enzymeâ€Inspired Controlled Release of Cucurbit[7]uril Nanovalves by Using Magnetic Mesoporous Silica. Chemistry - A European Journal, 2011, 17, 810-815.	3.3	67
13	Facile, Smart, and Degradable Metalâ€"Organic Framework Nanopesticides Gated with Fe^{III}-Tannic Acid Networks in Response to Seven Biological and Environmental Stimuli. ACS Applied Materials & Interfaces, 2021, 13, 19507-19520.	8.0	67
14	N-Octadecanoyl-l-alanine Amphiphile Monolayer at the Air/Water Interface and LB Film Studied by FTIR Spectroscopy. Langmuir, 1998, 14, 3631-3636.	3.5	62
15	Pillar[6]arene-Valved Mesoporous Silica Nanovehicles for Multiresponsive Controlled Release. ACS Applied Materials & Interfaces, 2014, 6, 20430-20436.	8.0	61
16	Multiâ€Responsive and Logic Controlled Release of DNAâ€Gated Mesoporous Silica Vehicles Functionalized with Intercalators for Multiple Delivery. Small, 2014, 10, 980-988.	10.0	61
17	Facile and Sensitive Glucose Sandwich Assay Using <i>In Situ</i>-Generated Raman Reporters. Analytical Chemistry, 2015, 87, 2016-2021.	6.5	60
18	Electrocatalytic oxidation of nitrite using metal-free nitrogen-doped reduced graphene oxide nanosheets for sensitive detection. Talanta, 2016, 155, 329-335.	5.5	51

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19	Carbon Nanodot-Decorated Ag@SiO₂ Nanoparticles for Fluorescence and Surface-Enhanced Raman Scattering Immunoassays. ACS Applied Materials & Interfaces, 2016, 8, 1033-1040.	8.0	51
20	Chain orientation and headgroup structure in Langmuir monolayers of stearic acid and metal stearate (Ag, Co, Zn, and Pb) studied by infrared reflection-absorption spectroscopy. Journal of Chemical Physics, 2006, 124, 134706.	3.0	48
21	Fast removal of aqueous Hg(ii) with quaternary ammonium-functionalized magnetic mesoporous silica and silica regeneration. Journal of Materials Chemistry, 2011, 21, 6981.	6.7	42
22	Cyclodextrin polymer-valved MoS2-embedded mesoporous silica nanopesticides toward hierarchical targets via multidimensional stimuli of biological and natural environments. Journal of Hazardous Materials, 2021, 419, 126404.	12.4	42
23	Ratiometric electrochemiluminescence sensing platform for sensitive glucose detection based on in situ generation and conversion of coreactants. Sensors and Actuators B: Chemical, 2017, 251, 256-263.	7.8	41
24	IRRAS Studies on Chain Orientation in the Monolayers of Amino Acid Amphiphiles at the Airâˆ’Water Interface Depending on Metal Complex and Hydrogen Bond Formation with the Headgroups. Journal of Physical Chemistry B, 2005, 109, 7428-7434.	2.6	38
25	Molecular Recognition of Cytosine- and Guanine-Functionalized Nucleolipids in the Mixed Monolayers at the Airâˆ’Water Interface and Langmuirâˆ’Blodgett Films. Journal of Physical Chemistry B, 2006, 110, 4914-4923.	2.6	38
26	Dual Enhanced Electrochemiluminescence of Aminated Au@SiO₂/CdS Quantum Dot Superstructures: Electromagnetic Field Enhancement and Chemical Enhancement. ACS Applied Materials & Interfaces, 2019, 11, 4488-4499.	8.0	38
27	Roles of Metal Complex and Hydrogen Bond in Molecular Structures and Phase Behaviors of Metal N-Octadecanoyl-L-alaninate Langmuirâˆ’Blodgett Films. Journal of Physical Chemistry B, 2000, 104, 10047-10052.	2.6	37
28	Langmuir monolayer approaches to protein recognition through molecular imprinting. Biosensors and Bioelectronics, 2005, 20, 2053-2060.	10.1	37
29	Directed Assembly of Binary Monolayers with a High Protein Affinity:Â Infrared Reflection Absorption Spectroscopy (IRRAS) and Surface Plasmon Resonance (SPR). Journal of Physical Chemistry B, 2007, 111, 2347-2356.	2.6	33
30	Bifunctional quantum dot-decorated Ag@SiO2 nanostructures for simultaneous immunoassays of surface-enhanced Raman scattering (SERS) and surface-enhanced fluorescence (SEF). Journal of Materials Chemistry B, 2013, 1, 2198.	5.8	30
31	User-safe and efficient chitosan-gated porous carbon nanopesticides and nanoherbicides. Journal of Colloid and Interface Science, 2021, 594, 20-34.	9.4	29
32	Integration of simultaneous and cascade release of two drugs into smart single nanovehicles based on DNA-gated mesoporous silica nanoparticles. Chemical Science, 2014, 5, 4424-4433.	7.4	28
33	Insight into Unusual Downfield NMR Shifts in the Inclusion Complex of Acridine Orange with Cucurbit[7]uril. European Journal of Organic Chemistry, 2009, 2009, 4931-4938.	2.4	27
34	Molecular Recognition of Nucleolipid Monolayers of 1-(2-Octadecyloxycarbonylethyl)cytosine to Guanosine at the Airâˆ’Water Interface and Langmuirâˆ’Blodgett Films. Langmuir, 2003, 19, 5389-5396.	3.5	26
35	Combination drug release of smart cyclodextrin-gated mesoporous silica nanovehicles. Chemical Communications, 2015, 51, 7203-7206.	4.1	25
36	Molecular Recognition of 1-(2-Octadecyloxycarbonylethyl)cytosine Monolayers to Guanosine at the Airâˆ’Water Interface Investigated by Infrared Reflectionâˆ’Absorption Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 13636-13642.	2.6	24

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37	Enhanced Binding and Biosensing of Carbohydrate-Functionalized Monolayers to Target Proteins by Surface Molecular Imprinting. Journal of Physical Chemistry B, 2009, 113, 11330-11337.	2.6	24
38	Protein-Gated Upconversion Nanoparticle-Embedded Mesoporous Silica Nanovehicles via Diselenide Linkages for Drug Release Tracking in Real Time and Tumor Chemotherapy. ACS Applied Materials & Interfaces, 2021, 13, 29070-29082.	8.0	20
39	Monolayer Formation on Silicon and Mica Surfaces Rearranged from N-Hexadecanoyl-l-alanine Supramolecular Structures. Journal of Physical Chemistry B, 2002, 106, 7295-7299.	2.6	18
40	Supramolecular Vesicles Coassembled from Disulfideâ€Linked Benzimidazolium Amphiphiles and Carboxylateâ€Substituted Pillar[6]arenes that Are Responsive to Five Stimuli. Angewandte Chemie, 2017, 129, 2699-2703.	2.0	18
41	Reduced steric hindrance and optimized spatial arrangement of carbohydrate ligands in imprinted monolayers for enhanced protein binding. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 792-800.	2.6	16
42	Detection of NH Stretching Signals from the Monolayers of Amino Acid Amphiphiles at the Airâˆ’Water Interface and Change of Hydrogen Bond Depending on Metal Ion in the Subphase:â€‰ Infrared Reflectionâˆ’Adsorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 5666-5670.	2.6	15
43	Self-Assembly and Molecular Recognition of Adenine- and Thymine-Functionalized Nucleolipids in the Mixed Monolayers and Thymine-Functionalized Nucleolipids on Aqueous Melamine at the Airâ€“Water Interface. Langmuir, 2012, 28, 11153-11163.	3.5	15
44	Miscibility of Binary Monolayers at the Airâˆ’Water Interface and Interaction of Protein with Immobilized Monolayers by Surface Plasmon Resonance Technique. Langmuir, 2006, 22, 6195-6202.	3.5	14
45	Well-ordered structure of N-octadecanoyl-l-alanine Langmuirâ€“Blodgett film studied by FTIR spectroscopy. Chemical Physics Letters, 1999, 313, 565-568.	2.6	13
46	Molecular Structure of Lead N-Octadecanoyl-l-alaninate Langmuirâˆ’Blodgett Film. Journal of Physical Chemistry B, 2001, 105, 6092-6096.	2.6	13
47	Tandem Assays of Protein and Glucose with Functionalized Core/Shell Particles Based on Magnetic Separation and Surfaceâ€Enhanced Raman Scattering. Small, 2013, 9, 3259-3264.	10.0	13
48	Ftir Studies on Phase Transitions of <i>N</i>-Octadecanoyl-L-Alanine and Zinc Octadecanoyl-L-Alaninate Lb Films. Spectroscopy Letters, 1999, 32, 1-16.	1.0	12
49	Novel Metal Coordinations in the Monolayers of an Amino-Acid-Derived Schiff Base at the Airâˆ’Water Interface and Langmuirâˆ’Blodgett Films. Journal of Physical Chemistry C, 2007, 111, 17025-17031.	3.1	12
50	Sensitive Glycoprotein Sandwich Assays by the Synergistic Effect of In Situ Generation of Raman Probes and Plasmonic Coupling of Ag Coreâ€“Au Satellite Nanostructures. ACS Applied Materials & Interfaces, 2016, 8, 10683-10689.	8.0	12
51	In Situ IRRAS Studies of Molecular Recognition of Barbituric Acid Lipids to Melamine at the Airâ€“Water Interface. Journal of Physical Chemistry B, 2011, 115, 13191-13198.	2.6	11
52	Synergetic Gating of Metal-Latching Ligands and Metal-Chelating Proteins for Mesoporous Silica Nanovehicles to Enhance Delivery Efficiency. ACS Applied Materials & Interfaces, 2014, 6, 15217-15223.	8.0	11
53	In Situ Studies of Metal Coordinations and Molecular Orientations in Monolayers of Amino-Acid-Derived Schiff Bases at the Airâˆ’Water Interface. Langmuir, 2009, 25, 2941-2948.	3.5	10
54	Surface enhanced electrochemiluminescence of the Ru(bpy)32+/tripropylamine system by Au@SiO2 nanoparticles for highly sensitive and selective detection of dopamine. Microchemical Journal, 2022, 176, 107224.	4.5	10

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55	Improved thermal stability of Langmuirâ€“Blodgett films through an intermolecular hydrogen bond and metal complex. Journal of Chemical Physics, 2004, 120, 379-383.	3.0	9
56	Creation of glycoprotein imprinted self-assembled monolayers with dynamic boronate recognition sites and imprinted cavities for selective glycoprotein recognition. Soft Matter, 2020, 16, 3039-3049.	2.7	9
57	FTIR and UV-Vis Spectroscopic Studies of Black Soap Film. Journal of Colloid and Interface Science, 1998, 207, 106-112.	9.4	8
58	Determination of Chain Orientation in the Monolayers of Amino-Acid-Derived Schiff Base at the Airâˆ’Water Interface Using in Situ Infrared Reflection Absorption Spectroscopy. Langmuir, 2007, 23, 11034-11041.	3.5	8
59	In Situ IRRAS Studies of NH Stretching Bands and Molecular Structures of the Monolayers of Amphiphiles Containing Amide and Amine Units at the Airâˆ’Water Interface. Journal of Physical Chemistry B, 2009, 113, 1396-1403.	2.6	8
60	Multivalent protein binding in carbohydrate-functionalized monolayers through protein-directed rearrangement and reorientation of glycolipids at the airâ€“water interface. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2128-2135.	2.6	8
61	Protein-Directed Assembly of Binary Monolayers at the Interface and Surface Patterns of Protein on the Monolayers. Langmuir, 2007, 23, 8142-8149.	3.5	7
62	Poly(ethylene glycol)s catalyzed two-phase dehydrochlorination of poly(vinyl chloride) with potassium hydroxide. Journal of Applied Polymer Science, 1998, 70, 2463-2469.	2.6	6
63	Protein-Directed Spatial Rearrangement of Glycolipids at the Airâˆ’Water Interface for Bivalent Protein Binding: In Situ Infrared Reflection Absorption Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 577-584.	2.6	5
64	Identification of molecular recognition of Langmuirâ€“Blodgett monolayers using surface-enhanced Raman scattering spectroscopy. Chemical Communications, 2013, 49, 8680.	4.1	5
65	FT-Raman and FTIR spectroscopic studies of N-octadecanoyl-l-alanine amphiphiles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 401-404.	3.9	4
66	Molecular Assemblies of 4-(Hexadecyloxy)-<i>N</i>-(pyridinylmethylene)anilines at the Airâˆ’Water Interface and Cu(II)-Promoted Vesicle Formation via Metal Coordination. Journal of Physical Chemistry B, 2010, 114, 11069-11075.	2.6	3
67	DNA-targeted formation and catalytic reactions of DNAzymes for label-free ratiometric electrochemiluminescence biosensing. Talanta, 2021, 225, 121964.	5.5	3
68	Vibrational Spectroscopic Studies of Molybdena Dispersed on Ceria Support. Spectroscopy Letters, 1998, 31, 441-457.	1.0	2
69	Inside Cover: Enzyme-Inspired Controlled Release of Cucurbit[7]uril Nanovalves by Using Magnetic Mesoporous Silica (Chem. Eur. J. 3/2011). Chemistry - A European Journal, 2011, 17, 726-726.	3.3	1
70	Annexin A5 Binding and Rebinding to Mixed Phospholipid Monolayers Studied by SPR and AFM. ACS Symposium Series, 2012, , 419-432.	0.5	0