Xuezhong Du

List of Publications by Year
in descending order

70 papers	2,610 citations	172457 29 h-index	189892 50 g-index
73 all docs	73 docs citations	73 times ranked	3782 citing authors

#	Article	IF	Citations
1	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
2	DNA-targeted formation and catalytic reactions of DNAzymes for label-free ratiometric electrochemiluminescence biosensing. Talanta, 2021, 225, 121964.	5.5	3
3	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
4	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
5	User-safe and efficient chitosan-gated porous carbon nanopesticides and nanoherbicides. Journal of Colloid and Interface Science, 2021, 594, 20-34.	9.4	29
6	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
7	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
8	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
9	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
10	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
11	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
12	Phosphonated Pillar[5]arene-Valved Mesoporous Silica Drug Delivery Systems. ACS Applied Materials & Interfaces, 2017, 9, 19638-19645.	8.0	72
13	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
14	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
15	Electrocatalytic oxidation of nitrite using metal-free nitrogen-doped reduced graphene oxide nanosheets for sensitive detection. Talanta, 2016, 155, 329-335.	5.5	51
16	Gated mesoporous carbon nanoparticles as drug delivery system for stimuli-responsive controlled release. Carbon, 2016, 101, 135-142.	10.3	70
17	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
18	Facile and Sensitive Glucose Sandwich Assay Using <i>In Situ</i>-Generated Raman Reporters. Analytical Chemistry, 2015, 87, 2016-2021.	6.5	60

#	Article	IF	Citations
19	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
20	Combination drug release of smart cyclodextrin-gated mesoporous silica nanovehicles. Chemical Communications, 2015, 51, 7203-7206.	4.1	25
21	Pillar[6]arene-Valved Mesoporous Silica Nanovehicles for Multiresponsive Controlled Release. ACS Applied Materials & Interfaces, 2014, 6, 20430-20436.	8.0	61
22	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
23	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
24	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
25	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
26	Nitrite electrochemical biosensing based on coupled graphene and gold nanoparticles. Biosensors and Bioelectronics, 2014, 51, 343-348.	10.1	135
27	Identification of molecular recognition of Langmuirâ€"Blodgett monolayers using surface-enhanced Raman scattering spectroscopy. Chemical Communications, 2013, 49, 8680.	4.1	5
28	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
29	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
30	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
31	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
32	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
33	Annexin A5 Binding and Rebinding to Mixed Phospholipid Monolayers Studied by SPR and AFM. ACS Symposium Series, 2012, , 419-432.	0.5	0
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

#	Article	IF	Citations
55	Langmuir monolayer approaches to protein recognition through molecular imprinting. Biosensors and Bioelectronics, 2005, 20, 2053-2060.	10.1	37
56	IRRAS Studies on Chain Orientation in the Monolayers of Amino Acid Amphiphiles at the Airâ^'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
57	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
58	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
59	Detection of NH Stretching Signals from the Monolayers of Amino Acid Amphiphiles at the Airâ^'Water Interface and Change of Hydrogen Bond Depending on Metal Ion in the Subphase:â€‰ Infrared Reflectionâ^'Adsorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 5666-5670.	2.6	15
60	Molecular Recognition of Nucleolipid Monolayers of 1-(2-Octadecyloxycarbonylethyl)cytosine to Guanosine at the Airâ^'Water Interface and Langmuirâ^'Blodgett Films. Langmuir, 2003, 19, 5389-5396.	3.5	26
61	Molecular Recognition of 1-(2-Octadecyloxycarbonylethyl)cytosine Monolayers to Guanosine at the Airâ^'Water Interface Investigated by Infrared Reflectionâ^'Absorption Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 13636-13642.	2.6	24
62	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
63	Molecular Structure of Lead N-Octadecanoyl-l-alaninate Langmuirâ^'Blodgett Film. Journal of Physical Chemistry B, 2001, 105, 6092-6096.	2.6	13
64	Roles of Metal Complex and Hydrogen Bond in Molecular Structures and Phase Behaviors of Metal N-Octadecanoyl-L-alaninate Langmuirâ^'Blodgett Films. Journal of Physical Chemistry B, 2000, 104, 10047-10052.	2.6	37
65	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
66	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
67	FTIR and UV-Vis Spectroscopic Studies of Black Soap Film. Journal of Colloid and Interface Science, 1998, 207, 106-112.	9.4	8
68	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
69	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
70	Vibrational Spectroscopic Studies of Molybdena Dispersed on Ceria Support. Spectroscopy Letters, 1998, 31, 441-457.	1.0	2