

Wilhelm Glomm

List of Publications by Year in descending order

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89
papers

4,033
citations

186265

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118850

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89
docs citations

89
times ranked

6490
citing authors

#	ARTICLE	IF	CITATIONS
1	Microencapsulation of Peppermint Oil by Complex Coacervation and Subsequent Spray Drying Using Bovine Serum Albumin/Gum Acacia and an Oxidized Starch Crosslinker. Applied Sciences (Switzerland), 2021, 11, 3956.	2.5	12
2	New insights into controlling the twin structure of magnetic iron oxide nanoparticles. Applied Materials Today, 2021, 24, 101084.	4.3	9
3	Immobilized protease on magnetic particles for enzymatic protein hydrolysis of poultry by-products. LWT - Food Science and Technology, 2021, 152, 112327.	5.2	7
4	New insights into size-controlled reproducible synthesis of anisotropic Fe ₃ O ₄ nanoparticles: the importance of the reaction environment. Materials Advances, 2020, 1, 1077-1082.	5.4	10
5	Formation of neural networks with structural and functional features consistent with small-world network topology on surface-grafted polymer particles. Royal Society Open Science, 2019, 6, 191086.	2.4	4
6	Epoxy-Based Nanocomposites for High-Voltage Insulation: A Review. Advanced Electronic Materials, 2019, 5, 1800505.	5.1	66
7	Growing gold nanostructures for shape-selective cellular uptake. Nanoscale Research Letters, 2018, 13, 254.	5.7	20
8	Synthesis, Characterization and Drug Loading of Multiresponsive p[NIPAm-co-PEGMA] (core)/p[NIPAm-co-AAc] (Shell) Nanogels with Monodisperse Size Distributions. Polymers, 2018, 10, 309.	4.5	14
9	Influence of polymer coating on release of l-dopa from core-shell Fe@Au nanoparticle systems. Colloid and Polymer Science, 2017, 295, 391-402.	2.1	3
10	Shape tunable synthesis of anisotropic gold nanostructures through binary surfactant mixtures. Materials Today Chemistry, 2017, 3, 1-9.	3.5	20
11	Synthesis of gadolinium oxide nanodisks and gadolinium doped iron oxide nanoparticles for MR contrast agents. Journal of Materials Chemistry B, 2017, 5, 418-422.	5.8	33
12	A robust method to calculate the volume phase transition temperature (VPTT) for hydrogels and hybrids. RSC Advances, 2017, 7, 53192-53202.	3.6	15
13	The Influence of Differently Shaped Gold Nanoparticles Functionalized with NIPAM-Based Hydrogels on the Release of Cytochrome C. Gels, 2017, 3, 42.	4.5	6
14	Liquid insulation of IGBT modules: Long term chemical compatibility and high voltage endurance testing. , 2016, , .		6
15	Incorporation of Fe@Au nanoparticles into multiresponsive pNIPAM-AAc colloidal gels modulates drug uptake and release. Colloid and Polymer Science, 2016, 294, 1929-1942.	2.1	12
16	L-DOPA-Coated Manganese Oxide Nanoparticles as Dual MRI Contrast Agents and Drug-Delivery Vehicles. Small, 2016, 12, 301-306.	10.0	78
17	Nanoparticle-stabilized microbubbles for multimodal imaging and drug delivery. Contrast Media and Molecular Imaging, 2015, 10, 356-366.	0.8	54
18	Controlling the self-assembly and optical properties of gold nanoclusters and gold nanoparticles biomaterialized with bovine serum albumin. RSC Advances, 2015, 5, 101101-101109.	3.6	5

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19	Ageing and corrosion of paper insulated copper windings: the effect of Irgamet® 39 in aged insulated oil. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 345-358.	2.9	14
20	Tuning the Size and Shape of Oxide Nanoparticles by Controlling Oxygen Content in the Reaction Environment: Morphological Analysis by Aspect Maps. Chemistry of Materials, 2015, 27, 1982-1990.	6.7	52
21	Self-assembly and characterization of transferrin-gold nanoconstructs and their interaction with bio-interfaces. Nanoscale, 2015, 7, 8062-8070.	5.6	12
22	Kinetics of hematopoietic stem cells and supportive activities of stromal cells in a three-dimensional bone marrow culture system. Growth Factors, 2015, 33, 347-355.	1.7	3
23	Self-healing high voltage electrical insulation materials. , 2014, , .		24
24	Synthesis and in vitro cellular interactions of superparamagnetic iron nanoparticles with a crystalline gold shell. Applied Surface Science, 2014, 316, 171-178.	6.1	12
25	Tunability in Crystallinity and Magnetic Properties of Core-Shell Fe Nanoparticles. Particle and Particle Systems Characterization, 2014, 31, 1054-1059.	2.3	24
26	Synthesis, characterization, and cellular uptake of magnetic nanocarriers for cancer drug delivery. Journal of Colloid and Interface Science, 2014, 433, 76-85.	9.4	31
27	Superspin glass state and exchange bias in amorphous Fe/Fe-O core/shell nanoparticles. Materials Research Express, 2014, 1, 036103.	1.6	7
28	Synthesis of Au nanowires with controlled morphological and structural characteristics. Applied Surface Science, 2014, 311, 780-788.	6.1	13
29	Influence of poly(ethylene glycol) block length on the adsorption of thermoresponsive copolymers onto gold surfaces. Journal of Materials Science, 2013, 48, 7055-7062.	3.7	4
30	Tunable photophysical properties, conformation and function of nanosized protein-gold constructs. RSC Advances, 2013, 3, 482-495.	3.6	28
31	Dielectric Properties of Asphaltene Solutions: Solvency Effect on Conductivity. Energy & Fuels, 2013, 27, 75-81.	5.1	15
32	Cytotoxicity of bovine α -lactalbumin: Oleic acid complexes correlates with the disruption of lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2691-2699.	2.6	27
33	Anticancer Activity from Gold-alpha-Lactalbumin Nanoconstructs?. Journal of Physical Chemistry C, 2013, 117, 2230-2238.	3.1	15
34	Turbiscan as a Tool for Studying the Phase Separation Tendency of Pyrolysis Oil. Energy & Fuels, 2013, 27, 1446-1452.	5.1	52
35	Effect of Charge Density Matching on the Temperature Response of PNIPAAm Block Copolymer-gold Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 12844-12853.	3.1	7
36	HAMLET Forms Annular Oligomers When Deposited with Phospholipid Monolayers. Journal of Molecular Biology, 2012, 418, 90-102.	4.2	27

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37	Interactions between bovine serum albumin and Langmuir films composed of charged and uncharged poly(N-isopropylacrylamide) block copolymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 98, 50-57.	5.0	9
38	Generally applicable procedure for in situ formation of fluorescent protein-gold nanoconstructs. <i>RSC Advances</i> , 2012, 2, 11704.	3.6	32
39	Charge- and temperature-dependent interactions between anionic poly(N-isopropylacrylamide) polymers in solution and a cationic surfactant at the water/air interface. <i>Soft Matter</i> , 2011, 7, 8498.	2.7	6
40	Immobilization onto gold nanoparticles alters $\hat{\pm}$ -lactalbumin interaction with pure and mixed phospholipid monolayers. <i>Soft Matter</i> , 2011, 7, 11501.	2.7	16
41	Gold Nanoparticles Affect Thermoresponse and Aggregation Properties of Mesoscopic Immunoglobulin G Clusters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11390-11399.	3.1	6
42	High-Efficiency NO _x Absorption in Water Using Equipment Packed with a Glass Fiber Filter. <i>Environmental Science & Technology</i> , 2011, 45, 1840-1846.	10.0	19
43	Emergent membrane-affecting properties of BSA-gold nanoparticle constructs. <i>Nanoscale</i> , 2011, 3, 1788.	5.6	13
44	Adhesive cell cultivation on polymer particle having grafted epoxy polymer chain. <i>Tissue and Cell</i> , 2011, 43, 115-124.	2.2	6
45	Interactions of $\hat{\pm}$ -Lactalbumin and Cytochrome c with Langmuir Monolayers of Glycerophospholipids. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 150-158.	2.4	6
46	Novel three-dimensional long-term bone marrow culture system using polymer particles with grafted epoxy-polymer-chains supports the proliferation and differentiation of hematopoietic stem cells. <i>Experimental Biology and Medicine</i> , 2011, 236, 1342-1350.	2.4	16
47	Subcritical Water Hydrolysis of Gelatin in Used X-Ray and Lith Films. <i>Journal of Chemical Engineering of Japan</i> , 2011, 44, 963-968.	0.6	2
48	Kinetics of the polymerizable azo initiator 2,2-azobis[<i>N</i> -(2-propenyl)-2-methylpropanamide] and its application to graft copolymerization. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2425-2433.	2.6	2
49	Temperature-induced adsorption and optical properties of an amphiphilic diblock copolymer adsorbed onto flat and curved silver surfaces. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 142-146.	9.4	5
50	Preparation of uniform monomer droplets using packed column and continuous polymerization in tube reactor. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 392-401.	9.4	19
51	Dielectric response as a function of viscosity for two crude oils with different conductivities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 20-26.	4.7	12
52	Adsorption of Cationic Hydroxyethylcellulose Derivatives onto Planar and Curved Gold Surfaces. <i>Langmuir</i> , 2010, 26, 15925-15932.	3.5	6
53	Temperature-Dependent Optical Properties of Gold Nanoparticles Coated with a Charged Diblock Copolymer and an Uncharged Triblock Copolymer. <i>ACS Nano</i> , 2010, 4, 1187-1201.	14.6	43
54	Temperature-Induced Flocculation of Gold Particles with an Adsorbed Thermoresponse Cationic Copolymer. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21960-21968.	3.1	18

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55	Adsorption and Bioactivity of Tyrosine Hydroxylase on Gold Surfaces and Nanoparticles. Protein and Peptide Letters, 2010, 17, 1376-1382.	0.9	5
56	Kinetics of Solution Polymerization and Seed Polymerization of 2-[p-(1,1,3,3-Tetramethyl-Butyl) Phenoxy-Polyethoxy] Ethyl Methacrylate Macromonomers. Journal of Chemical Engineering of Japan, 2010, 43, 767-776.	0.6	0
57	Slow salt-induced aggregation of citrate-covered silver particles in aqueous solutions of cellulose derivatives. Colloid and Polymer Science, 2009, 287, 1391-1404.	2.1	24
58	Use of cellulose derivatives on gold surfaces for reduced nonspecific adsorption of immunoglobulin G. Colloids and Surfaces B: Biointerfaces, 2009, 72, 266-271.	5.0	14
59	Synthesis and characterization of mesoporous alumina materials with large pore size prepared by a double hydrolysis route. Microporous and Mesoporous Materials, 2009, 119, 245-251.	4.4	44
60	Characterization of Pt/SBA-15 prepared by the deposition-precipitation method. Catalysis Today, 2009, 147, 217-223.	4.4	25
61	Dehydration efficiency of AC electrical fields on water-in-model-oil emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 352, 63-69.	4.7	97
62	Enzyme immobilization on amphiphilic polymer particles having grafted polyionic polymer chains. Biochemical Engineering Journal, 2009, 48, 6-12.	3.6	8
63	Same System~Different Results: The Importance of Protein-Introduction Protocols in Langmuir-Monolayer Studies of Lipid-Protein Interactions. Analytical Chemistry, 2009, 81, 3042-3050.	6.5	40
64	Immobilization of Lipases from <i>Candida antarctica</i> . Influence of Surface Polarity on Adsorption and Transesterification Activity. Journal of Dispersion Science and Technology, 2009, 30, 865-872.	2.4	6
65	Adsorption of cellulose derivatives on flat gold surfaces and on spherical gold particles. Journal of Colloid and Interface Science, 2008, 328, 20-28.	9.4	25
66	Synthesis and characterization of mesoporous alumina with large pore size and their performance in Fischer-Tropsch synthesis. Applied Catalysis A: General, 2008, 351, 131-135.	4.3	43
67	Adsorption Behavior of Acidic and Basic Proteins onto Citrate-Coated Au Surfaces Correlated to Their Native Fold, Stability, and pI. Journal of Physical Chemistry B, 2007, 111, 14329-14345.	2.6	87
68	Europium(III)-cored fluorinated dendrimers at the air-water surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 299, 186-197.	4.7	8
69	Platinum incorporated into the SBA-15 mesostructure via deposition-precipitation method: Pt nanoparticle size estimation and catalytic testing. Topics in Catalysis, 2007, 45, 93-99.	2.8	31
70	Dendrimers and Hyperbranched Polyesters as Structure-Directing Agents in the Formation of Nanoporous Silica. Journal of Dispersion Science and Technology, 2006, 27, 893-897.	2.4	7
71	Spectroscopic Characterization of Cobalt-Containing Mesoporous Materials. Journal of Physical Chemistry B, 2006, 110, 5386-5394.	2.6	34
72	Platinum nanoparticles incorporated in mesoporous silica SBA-15 by the deposition-precipitation method. Studies in Surface Science and Catalysis, 2006, , 513-520.	1.5	5

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73	Synthesis, functionalisation and characterisation of mesoporous materials and sol-gel glasses for applications in catalysis, adsorption and photonics. <i>Advances in Colloid and Interface Science</i> , 2006, 123-126, 17-32.	14.7	61
74	A Quartz Crystal Microbalance Study of the Adsorption of Fluorescein-5-Isothiocyanate onto Gold Surfaces. <i>Journal of Dispersion Science and Technology</i> , 2006, 27, 651-656.	2.4	3
75	Synthesis of Mesoporous Alumina Using Carboxyl Functional, Hyperbranched Polyesters as Templates. <i>Journal of Dispersion Science and Technology</i> , 2006, 27, 547-554.	2.4	5
76	Platinum nanoparticles encapsulated in mesoporous silica: Preparation, characterisation and catalytic activity in toluene hydrogenation. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 198-206.	4.4	62
77	Interfacial chemistry of cobalt(II) during sol-gel synthesis of cobalt-containing mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 291-300.	4.4	36
78	Probing BSA Binding to Citrate-Coated Gold Nanoparticles and Surfaces. <i>Langmuir</i> , 2005, 21, 9303-9307.	3.5	813
79	Synthesis and Characterization of Gold Nanoparticle-Functionalized Ordered Mesoporous Materials. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 729-744.	2.4	13
80	Functionalized Gold Nanoparticles for Applications in Bionanotechnology. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 389-414.	2.4	129
81	A Direct Sol-Gel Synthesis Method for Incorporation of Transition Metals into the Framework of Ordered Mesoporous Materials. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 95-104.	2.4	4
82	Detection of Adsorption of Ru(II) and Os(II) Polypyridyl Complexes on Gold and Silver Nanoparticles by Single-Photon Counting Emission Measurements. <i>Journal of Physical Chemistry B</i> , 2005, 109, 804-810.	2.6	36
83	Photophysical Properties of Ruthenium(II) Tris(2,2'-Bipyridine) and Europium(III) Hexahydrate Salts Assembled into Sol-Gel Materials. <i>Chemistry of Materials</i> , 2005, 17, 5512-5520.	6.7	28
84	Cobalt Functionalization of Mesoporous Silica by Incipient Wetness Impregnation and Co-precipitation. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 87-94.	2.4	5
85	Cellular Trajectories of Peptide-Modified Gold Particle Complexes: A Comparison of Nuclear Localization Signals and Peptide Transduction Domains. <i>Bioconjugate Chemistry</i> , 2004, 15, 482-490.	3.6	415
86	Multifunctional Gold Nanoparticle-Peptide Complexes for Nuclear Targeting. <i>Journal of the American Chemical Society</i> , 2003, 125, 4700-4701.	13.7	752
87	Critical Flocculation Concentrations, Binding Isotherms, and Ligand Exchange Properties of Peptide-Modified Gold Nanoparticles Studied by UV-Visible, Fluorescence, and Time-Correlated Single Photon Counting Spectroscopies. <i>Analytical Chemistry</i> , 2003, 75, 5797-5805.	6.5	101
88	Influence of Hydrophobic Cosolutes on the Associative/Segregative Phase Separation of Aqueous Cationic Surfactant-Polymer Systems. <i>Langmuir</i> , 2002, 18, 6504-6506.	3.5	12
89	Optical Properties of Dye Molecules Adsorbed on Single Gold and Silver Nanoparticles. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6533-6540.	2.5	78