

# Wilhelm Glomm

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3431014/publications.pdf>

Version: 2024-02-01

89  
papers

4,033  
citations

186209

28  
h-index

118793

62  
g-index

89  
all docs

89  
docs citations

89  
times ranked

6490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing BSA Binding to Citrate-Coated Gold Nanoparticles and Surfaces. <i>Langmuir</i> , 2005, 21, 9303-9307.	1.6	813
2	Multifunctional Gold Nanoparticle~Peptide Complexes for Nuclear Targeting. <i>Journal of the American Chemical Society</i> , 2003, 125, 4700-4701.	6.6	752
3	Cellular Trajectories of Peptide-Modified Gold Particle Complexes:~Comparison of Nuclear Localization Signals and Peptide Transduction Domains. <i>Bioconjugate Chemistry</i> , 2004, 15, 482-490.	1.8	415
4	Functionalized Gold Nanoparticles for Applications in Bionanotechnology. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 389-414.	1.3	129
5	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.	3.2	101
6	Dehydration efficiency of AC electrical fields on water-in-model-oil emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 352, 63-69.	2.3	97
7	Adsorption Behavior of Acidic and Basic Proteins onto Citrate-Coated Au Surfaces Correlated to Their Native Fold, Stability, and pl. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14329-14345.	1.2	87
8	Optical Properties of Dye Molecules Adsorbed on Single Gold and Silver Nanoparticles. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6533-6540.	1.1	78
9	<sc>L</sc>~DOPA~Coated Manganese Oxide Nanoparticles as Dual MRI Contrast Agents and Drug~Delivery Vehicles. <i>Small</i> , 2016, 12, 301-306.	5.2	78
10	Epoxy~Based Nanocomposites for High~Voltage Insulation: A Review. <i>Advanced Electronic Materials</i> , 2019, 5, 1800505.	2.6	66
11	Platinum nanoparticles encapsulated in mesoporous silica: Preparation, characterisation and catalytic activity in toluene hydrogenation. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 198-206.	2.2	62
12	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.	7.0	61
13	Nanoparticle~stabilized microbubbles for multimodal imaging and drug delivery. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 356-366.	0.4	54
14	Turbiscan as a Tool for Studying the Phase Separation Tendency of Pyrolysis Oil. <i>Energy &amp; Fuels</i> , 2013, 27, 1446-1452.	2.5	52
15	Tuning the Size and Shape of Oxide Nanoparticles by Controlling Oxygen Content in the Reaction Environment: Morphological Analysis by Aspect Maps. <i>Chemistry of Materials</i> , 2015, 27, 1982-1990.	3.2	52
16	Synthesis and characterization of mesoporous alumina materials with large pore size prepared by a double hydrolysis route. <i>Microporous and Mesoporous Materials</i> , 2009, 119, 245-251.	2.2	44
17	Synthesis and characterization of mesoporous alumina with large pore size and their performance in Fischer~Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2008, 351, 131-135.	2.2	43
18	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.	7.3	43

#	ARTICLE	IF	CITATIONS
19	Same Systemâˆ“Different Results: The Importance of Protein-Introduction Protocols in Langmuir-Monolayer Studies of Lipid-Protein Interactions. <i>Analytical Chemistry</i> , 2009, 81, 3042-3050.	3.2	40
20	Interfacial chemistry of cobalt(II) during solâ€“gel synthesis of cobalt-containing mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 291-300.	2.2	36
21	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.	1.2	36
22	Spectroscopic Characterization of Cobalt-Containing Mesoporous Materials. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5386-5394.	1.2	34
23	Synthesis of gadolinium oxide nanodisks and gadolinium doped iron oxide nanoparticles for MR contrast agents. <i>Journal of Materials Chemistry B</i> , 2017, 5, 418-422.	2.9	33
24	Generally applicable procedure for in situ formation of fluorescent protein-gold nanoconstructs. <i>RSC Advances</i> , 2012, 2, 11704.	1.7	32
25	Platinum incorporated into the SBA-15 mesostructure via deposition-precipitation method: Pt nanoparticle size estimation and catalytic testing. <i>Topics in Catalysis</i> , 2007, 45, 93-99.	1.3	31
26	Synthesis, characterization, and cellular uptake of magnetic nanocarriers for cancer drug delivery. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 76-85.	5.0	31
27	Photophysical Properties of Ruthenium(II) Tris(2,2â€“Bipyridine) and Europium(III) Hexahydrate Salts Assembled into Solâˆ“Gel Materials. <i>Chemistry of Materials</i> , 2005, 17, 5512-5520.	3.2	28
28	Tunable photophysical properties, conformation and function of nanosized proteinâ€“gold constructs. <i>RSC Advances</i> , 2013, 3, 482-495.	1.7	28
29	HAMLET Forms Annular Oligomers When Deposited with Phospholipid Monolayers. <i>Journal of Molecular Biology</i> , 2012, 418, 90-102.	2.0	27
30	Cytotoxicity of bovine Î±-lactalbumin: Oleic acid complexes correlates with the disruption of lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2691-2699.	1.4	27
31	Adsorption of cellulose derivatives on flat gold surfaces and on spherical gold particles. <i>Journal of Colloid and Interface Science</i> , 2008, 328, 20-28.	5.0	25
32	Characterization of Pt/SBA-15 prepared by the depositionâ€“precipitation method. <i>Catalysis Today</i> , 2009, 147, 217-223.	2.2	25
33	Slow salt-induced aggregation of citrate-covered silver particles in aqueous solutions of cellulose derivatives. <i>Colloid and Polymer Science</i> , 2009, 287, 1391-1404.	1.0	24
34	Self-healing high voltage electrical insulation materials. , 2014, , .		24
35	Tunability in Crystallinity and Magnetic Properties of Coreâ€“Shell Fe Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1054-1059.	1.2	24
36	Shape tunable synthesis of anisotropic gold nanostructures through binary surfactant mixtures. <i>Materials Today Chemistry</i> , 2017, 3, 1-9.	1.7	20

#	ARTICLE	IF	CITATIONS
37	Growing gold nanostructures for shape-selective cellular uptake. <i>Nanoscale Research Letters</i> , 2018, 13, 254.	3.1	20
38	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.	5.0	19
39	High-Efficiency NO <sub>x</sub> Absorption in Water Using Equipment Packed with a Glass Fiber Filter. <i>Environmental Science &amp; Technology</i> , 2011, 45, 1840-1846.	4.6	19
40	Temperature-Induced Flocculation of Gold Particles with an Adsorbed Thermoresponsive Cationic Copolymer. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21960-21968.	1.5	18
41	Immobilization onto gold nanoparticles alters $\alpha$ -lactalbumin interaction with pure and mixed phospholipid monolayers. <i>Soft Matter</i> , 2011, 7, 11501.	1.2	16
42	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.	1.1	16
43	Dielectric Properties of Asphaltene Solutions: Solvency Effect on Conductivity. <i>Energy &amp; Fuels</i> , 2013, 27, 75-81.	2.5	15
44	Anticancer Activity from Gold- $\alpha$ -Lactalbumin Nanoconstructs?. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2230-2238.	1.5	15
45	A robust method to calculate the volume phase transition temperature (VPTT) for hydrogels and hybrids. <i>RSC Advances</i> , 2017, 7, 53192-53202.	1.7	15
46	Use of cellulose derivatives on gold surfaces for reduced nonspecific adsorption of immunoglobulin G. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 72, 266-271.	2.5	14
47	Ageing and corrosion of paper insulated copper windings: the effect of Irgamet <sup>®</sup> 39 in aged insulated oil. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 345-358.	1.8	14
48	Synthesis, Characterization and Drug Loading of Multiresponsive p[NIPAm-co-PEGMA] (core)/p[NIPAm-co-AAc] (Shell) Nanogels with Monodisperse Size Distributions. <i>Polymers</i> , 2018, 10, 309.	2.0	14
49	Synthesis and Characterization of Gold Nanoparticle-Functionalized Ordered Mesoporous Materials. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 729-744.	1.3	13
50	Emergent membrane-affecting properties of BSA-gold nanoparticle constructs. <i>Nanoscale</i> , 2011, 3, 1788.	2.8	13
51	Synthesis of Au nanowires with controlled morphological and structural characteristics. <i>Applied Surface Science</i> , 2014, 311, 780-788.	3.1	13
52	Influence of Hydrophobic Cosolutes on the Associative/Segregative Phase Separation of Aqueous Cationic Surfactant-Polymer Systems. <i>Langmuir</i> , 2002, 18, 6504-6506.	1.6	12
53	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.	2.3	12
54	Synthesis and in vitro cellular interactions of superparamagnetic iron nanoparticles with a crystalline gold shell. <i>Applied Surface Science</i> , 2014, 316, 171-178.	3.1	12

#	ARTICLE	IF	CITATIONS
55	Self-assembly and characterization of transferrin@gold nanoconstructs and their interaction with bio-interfaces. <i>Nanoscale</i> , 2015, 7, 8062-8070.	2.8	12
56	Incorporation of Fe@Au nanoparticles into multiresponsive pNIPAM-AAc colloidal gels modulates drug uptake and release. <i>Colloid and Polymer Science</i> , 2016, 294, 1929-1942.	1.0	12
57	Microencapsulation of Peppermint Oil by Complex Coacervation and Subsequent Spray Drying Using Bovine Serum Albumin/Gum Acacia and an Oxidized Starch Crosslinker. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3956.	1.3	12
58	New insights into size-controlled reproducible synthesis of anisotropic Fe <sub>3</sub> O <sub>4</sub> nanoparticles: the importance of the reaction environment. <i>Materials Advances</i> , 2020, 1, 1077-1082.	2.6	10
59	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.	2.5	9
60	New insights into controlling the twin structure of magnetic iron oxide nanoparticles. <i>Applied Materials Today</i> , 2021, 24, 101084.	2.3	9
61	Europium(III)-cored fluorinated dendrimers at the air-water surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 299, 186-197.	2.3	8
62	Enzyme immobilization on amphiphilic polymer particles having grafted polyionic polymer chains. <i>Biochemical Engineering Journal</i> , 2009, 48, 6-12.	1.8	8
63	Dendrimers and Hyperbranched Polyesters as Structure-Directing Agents in the Formation of Nanoporous Silica. <i>Journal of Dispersion Science and Technology</i> , 2006, 27, 893-897.	1.3	7
64	Effect of Charge Density Matching on the Temperature Response of PNIPAAm Block Copolymer@Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12844-12853.	1.5	7
65	Superspin glass state and exchange bias in amorphous Fe/Fe-O core/shell nanoparticles. <i>Materials Research Express</i> , 2014, 1, 036103.	0.8	7
66	Immobilized protease on magnetic particles for enzymatic protein hydrolysis of poultry by-products. <i>LWT - Food Science and Technology</i> , 2021, 152, 112327.	2.5	7
67	Immobilization of Lipases from <i>Candida antarctica</i> . Influence of Surface Polarity on Adsorption and Transesterification Activity. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 865-872.	1.3	6
68	Adsorption of Cationic Hydroxyethylcellulose Derivatives onto Planar and Curved Gold Surfaces. <i>Langmuir</i> , 2010, 26, 15925-15932.	1.6	6
69	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.	1.2	6
70	Gold Nanoparticles Affect Thermoresponse and Aggregation Properties of Mesoscopic Immunoglobulin G Clusters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11390-11399.	1.5	6
71	Adhesive cell cultivation on polymer particle having grafted epoxy polymer chain. <i>Tissue and Cell</i> , 2011, 43, 115-124.	1.0	6
72	Interactions of $\beta$ -Lactalbumin and Cytochrome c with Langmuir Monolayers of Glycerophospholipids. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 150-158.	1.3	6

#	ARTICLE	IF	CITATIONS
73	Liquid insulation of IGBT modules: Long term chemical compatibility and high voltage endurance testing. , 2016, , .		6
74	The Influence of Differently Shaped Gold Nanoparticles Functionalized with NIPAM-Based Hydrogels on the Release of Cytochrome C. Gels, 2017, 3, 42.	2.1	6
75	Cobalt Functionalization of Mesoporous Silica by Incipient Wetness Impregnation and Co-precipitation. Journal of Dispersion Science and Technology, 2005, 26, 87-94.	1.3	5
76	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
77	Synthesis of Mesoporous Alumina Using Carboxyl Functional, Hyperbranched Polyesters as Templates. Journal of Dispersion Science and Technology, 2006, 27, 547-554.	1.3	5
78	Temperature-induced adsorption and optical properties of an amphiphilic diblock copolymer adsorbed onto flat and curved silver surfaces. Journal of Colloid and Interface Science, 2010, 342, 142-146.	5.0	5
79	Controlling the self-assembly and optical properties of gold nanoclusters and gold nanoparticles biomineralized with bovine serum albumin. RSC Advances, 2015, 5, 101101-101109.	1.7	5
80	Adsorption and Bioactivity of Tyrosine Hydroxylase on Gold Surfaces and Nanoparticles. Protein and Peptide Letters, 2010, 17, 1376-1382.	0.4	5
81	A Direct Sol-Gel Synthesis Method for Incorporation of Transition Metals into the Framework of Ordered Mesoporous Materials. Journal of Dispersion Science and Technology, 2005, 26, 95-104.	1.3	4
82	Influence of poly(ethylene glycol) block length on the adsorption of thermoresponsive copolymers onto gold surfaces. Journal of Materials Science, 2013, 48, 7055-7062.	1.7	4
83	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.	1.1	4
84	A Quartz Crystal Microbalance Study of the Adsorption of Fluorescein-5-Isothiocyanate onto Gold Surfaces. Journal of Dispersion Science and Technology, 2006, 27, 651-656.	1.3	3
85	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.	0.5	3
86	Influence of polymer coating on release of l-dopa from core-shell Fe@Au nanoparticle systems. Colloid and Polymer Science, 2017, 295, 391-402.	1.0	3
87	Kinetics of the polymerizable azo initiator 2,2'-azobis[ <i>N</i> -(2-propenyl)-2-methylpropanamide] and its application to graft copolymerization. Journal of Applied Polymer Science, 2010, 118, 2425-2433.	1.3	2
88	Subcritical Water Hydrolysis of Gelatin in Used X-Ray and Lith Films. Journal of Chemical Engineering of Japan, 2011, 44, 963-968.	0.3	2
89	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.	0.3	0