Claudia Pacholski

List of Publications by Year
in descending order

60	4,537	257450 24	155660 55
papers	citations	h-index	g-index

65	65	65	6323
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The disappearance and return of nanoparticles upon low energy ion irradiation. Nanotechnology, 2022, 33, 035703.	2.6	5
2	Microscopic Understanding of Reaction Rates Observed in Plasmon Chemistry of Nanoparticleâ€“Ligand Systems. Journal of Physical Chemistry C, 2022, 126, 5333-5342.	3.1	7
3	Bottom, Top, or in Between: Combining Plasmonic Nanohole Arrays and Hydrogel Microgels for Optical Fiber Sensor Applications. Advanced Materials Interfaces, 2022, 9, .	3.7	4
4	Plasmonic Lab-on-fiber Sensor: Fabrication and Subsequent Optimization. , 2022, , .		0
5	Dual responsiveness of microgels induced by single light stimulus. Applied Physics Letters, 2021, 118, .	3.3	10
6	Plasmonic Nanohole Arrays on Top of Porous Silicon Sensors: A Winâ€“Win Situation. ACS Applied Materials & Interfaces, 2021, 13, 36436-36444.	8.0	4
7	Trendbericht Analytische Chemie. Nachrichten Aus Der Chemie, 2020, 68, 52-60.	0.0	1
8	Plasmonic biosensors fabricated by galvanic displacement reactions for monitoring biomolecular interactions in real time. Analytical and Bioanalytical Chemistry, 2020, 412, 3433-3445.	3.7	6
9	In Vitro Monitoring Conformational Changes of Polypeptide Monolayers Using Infrared Plasmonic Nanoantennas. Nano Letters, 2019, 19, 1-7.	9.1	45
10	One Spotâ€”Two Sensors: Porous Silicon Interferometers in Combination With Gold Nanostructures Showing Localized Surface Plasmon Resonance. Frontiers in Chemistry, 2019, 7, 593.	3.6	13
11	Fiber optic plasmonic sensors: Providing sensitive biosensor platforms with minimal lab equipment. Biosensors and Bioelectronics, 2019, 132, 368-374.	10.1	54
12	Chemical Routes to Surface Enhanced Infrared Absorption (SEIRA) Substrates. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1527-1539.	2.8	5
13	Dynamics of nanoparticle morphology under low energy ion irradiation. Nanotechnology, 2018, 29, 314002.	2.6	7
14	Fabrication of ordered tubular porous silicon structures by colloidal lithography and metal assisted chemical etching: SERS performance of 2D porous silicon structures. Applied Surface Science, 2018, 462, 783-790.	6.1	20
15	Soft colloidal lithography. RSC Advances, 2017, 7, 10688-10691.	3.6	4
16	Porous silicon pillar and bilayer structure as a nucleation center for the formation of aligned vanadium pentoxide nanorods. Ceramics International, 2017, 43, 8023-8030.	4.8	8
17	Devising Self-Assembled-Monolayers for Surface-Enhanced Infrared Spectroscopy of pH-Driven Poly-<scp>l</scp>-lysine Conformational Changes. Langmuir, 2016, 32, 7356-7364.	3.5	26
18	Bottom-Up Fabrication of Hybrid Plasmonic Sensors: Gold-Capped Hydrogel Microspheres Embedded in Periodic Metal Hole Arrays. ACS Applied Materials & Interfaces, 2016, 8, 26392-26399.	8.0	13

#	Article	IF	Citations
19	Fabrication of porous silicon-based optical sensors using metal-assisted chemical etching. RSC Advances, 2016, 6, 21430-21434.	3.6	28
20	Two-Dimensional Arrays of Poly(N-Isopropylacrylamide) Microspheres: Formation, Characterization and Application. Zeitschrift Fur Physikalische Chemie, 2015, 229, 283-300.	2.8	6
21	Enhanced sputter yields of ion irradiated Au nano particles: energy and size dependence. Nanotechnology, 2015, 26, 325301.	2.6	22
22	Detection of biomolecules with 1D photonic crystals based on porous silicon. , 2014, , .		0
23	Topâ€Up Fabrication of Gold Nanorings. Chemistry - an Asian Journal, 2014, 9, 2072-2076.	3.3	7
24	Bottom-up fabrication of nanohole arrays loaded with gold nanoparticles: extraordinary plasmonic sensors. Chemical Communications, 2014, 50, 15419-15422.	4.1	16
25	Getting real: influence of structural disorder on the performance of plasmonic hole array sensors fabricated by a bottom-up approach. Journal of Materials Chemistry C, 2014, 2, 7632-7638.	5.5	12
26	Optical characterization of porous silicon monolayers decorated with hydrogel microspheres. Nanoscale Research Letters, 2014, 9, 425.	5.7	4
27	Seeding Growth Approach to Gold Nanoparticles with Diameters Ranging from 10 to 80 Nanometers in Organic Solvent. European Journal of Inorganic Chemistry, 2014, 2014, 3633-3637.	2.0	9
28	Plasmon Coupling in Self-Assembled Gold Nanoparticle-Based Honeycomb Islands. Journal of Physical Chemistry C, 2013, 117, 18634-18641.	3.1	38
29	Real-time monitoring of electrochemical controlled protein adsorption by a plasmonic nanowire based sensor. Chemical Communications, 2013, 49, 8326.	4.1	19
30	Formation of Large 2D Arrays of Shapeâ€Controlled Colloidal Nanoparticles at Variable Interparticle Distances. Particle and Particle Systems Characterization, 2013, 30, 102-108.	2.3	27
31	Colloidal Nanoparticles: Formation of Large 2D Arrays of Shapeâ€Controlled Colloidal Nanoparticles at Variable Interparticle Distances (Part. Part. Syst. Charact. 1/2013). Particle and Particle Systems Characterization, 2013, 30, 2-2.	2.3	1
32	Contact Line Motion on Nanorough Surfaces: A Thermally Activated Process. Journal of the American Chemical Society, 2013, 135, 7159-7171.	13.7	48
33	Bottom-up fabrication of ordered 2D and 3D gold nanoparticle assemblies showing collective or individual plasmon resonances. , 2013, , .		2
34	Photonic Crystal Sensors Based on Porous Silicon. Sensors, 2013, 13, 4694-4713.	3.8	172
35	Antireflective subwavelength structures on microlens arraysâ€”comparison of various manufacturing techniques. Applied Optics, 2012, 51, 8.	1.8	20
36	Fabrication of porous silicon by metal-assisted etching using highly ordered gold nanoparticle arrays. Nanoscale Research Letters, 2012, 7, 450.	5.7	34

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37	Lessons from nature: biomimetic subwavelength structures for highâ€performance optics. Laser and Photonics Reviews, 2012, 6, 641-659.	8.7	74
38	Extraordinary long range order in self-healing non-close packed 2D arrays. Soft Matter, 2011, 7, 3735.	2.7	61
39	Nanopatterning by block copolymer micelle nanolithography and bioinspired applications. Biointerphases, 2011, 6, MR1-MR12.	1.6	118
40	Self-Assembled Plasmonic Coreâ€“Shell Clusters with an Isotropic Magnetic Dipole Response in the Visible Range. ACS Nano, 2011, 5, 6586-6592.	14.6	111
41	Fabrication of multi-parametric platforms based on nanocone arrays for determination of cellular response. Beilstein Journal of Nanotechnology, 2011, 2, 545-551.	2.8	13
42	Fabrication of patterned porous silicon structures using a poly(N-iso-propylacrylamide) microgel mask and catalytic etching. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1797-1800.	0.8	5
43	Antireflective ‘moth-eye’ structures fabricated by a cheap and versatile process on various optical elements. , 2011, , .		0
44	Tailored antireflective biomimetic nanostructures for UV applications. Nanotechnology, 2010, 21, 425301.	2.6	33
45	Simulating different manufactured antireflective sub-wavelength structures considering the influence of local topographic variations. Optics Express, 2010, 18, 23878.	3.4	19
46	Small molecule detection by reflective interferometric Fourier transform spectroscopy (RIFTS). Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1318-1321.	1.8	18
47	Real-time monitoring of enzyme activity in a mesoporous silicon double layer. Nature Nanotechnology, 2009, 4, 255-258.	31.5	195
48	A chemical route to sub-wavelength hole arrays in metallic films. Journal of Materials Chemistry, 2009, 19, 5906.	6.7	14
49	pH-triggered release of vancomycin from protein-capped porous silicon films. Nanomedicine, 2008, 3, 31-43.	3.3	74
50	Sensing with porous silicon double layers: A general approach for background suppression. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2088-2092.	0.8	24
51	Delivery of nanogram payloads using magnetic porous silicon microcarriers. Lab on A Chip, 2006, 6, 782.	6.0	50
52	Reflective Interferometric Fourier Transform Spectroscopy:Â A Self-Compensating Label-Free Immunosensor Using Double-Layers of Porous SiO2. Journal of the American Chemical Society, 2006, 128, 4250-4252.	13.7	127
53	Protein-Coated Porous-Silicon Photonic Crystals for Amplified Optical Detection of Protease Activity. Advanced Materials, 2006, 18, 1393-1396.	21.0	147
54	Biosensing Using Porous Silicon Double-Layer Interferometers:Â Reflective Interferometric Fourier Transform Spectroscopy. Journal of the American Chemical Society, 2005, 127, 11636-11645.	13.7	352

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55	ZnO nanorods: growth mechanism and anisotropic functionalization. , 2004, 5513, 232.		4
56	Site-Specific Photodeposition of Silver on ZnO Nanorods. Angewandte Chemie - International Edition, 2004, 43, 4774-4777.	13.8	274
57	Site-Specific Photodeposition of Silver on ZnO Nanorods.. ChemInform, 2004, 35, no.	0.0	0
58	Rectifying Behavior of Electrically Aligned ZnO Nanorods. Nano Letters, 2003, 3, 1097-1101.	9.1	289
59	Self-Assembly of ZnO: From Nanodots to Nanorods. Angewandte Chemie - International Edition, 2002, 41, 1188-1191.	13.8	1,764
60	Synthesis and Formation of an Ems Correlated Contaminant in Biotechnologically Manufactured L-Tryptophan. Advances in Experimental Medicine and Biology, 1999, 467, 481-486.	1.6	8