Svetlana A Santer

List of Publications by Year
in descending order

107	4,063	109321	128289
papers	citations	35 h-index	60 g-index

135	135	135	3298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning the Volume Phase Transition Temperature of Microgels by Light. Advanced Functional Materials, 2022, 32, 2107946.	14.9	21
2	Tuning the Volume Phase Transition Temperature of Microgels by Light (Adv. Funct. Mater. 2/2022). Advanced Functional Materials, 2022, 32, .	14.9	1
3	How to Make a Surface Act as a Micropump. Advanced Materials Interfaces, 2022, 9, .	3.7	6
4	A Dual pHâ€•and Lightâ€Responsive Spiropyranâ€Based Surfactant: Investigations on Its Switching Behavior and Remote Control over Emulsion Stability. Angewandte Chemie - International Edition, 2022, 61, .	13.8	19
5	Generation of Local Diffusioosmotic Flow by Light Responsive Microgels. Langmuir, 2022, 38, 6343-6351.	3.5	8
6	Interplay of diffusio- and thermo-osmotic flows generated by single light stimulus. Applied Physics Letters, 2022, 120, .	3.3	5
7	Quantification of ordering in active light driven colloids. Journal of Colloid and Interface Science, 2021, 586, 866-875.	9.4	10
8	Dual responsiveness of microgels induced by single light stimulus. Applied Physics Letters, 2021, 118, .	3.3	10
9	Light-induced manipulation of passive and active microparticles. European Physical Journal E, 2021, 44, 50.	1.6	13
10	Photoisomerization of an Azobenzeneâ€Containing Surfactant Within a Micelle. ChemPhotoChem, 2021, 5, 926-932.	3.0	12
11	Cis-Isomers of Photosensitive Cationic Azobenzene Surfactants in DNA Solutions at Different NaCl Concentrations: Experiment and Modeling. Journal of Physical Chemistry B, 2021, 125, 11197-11207.	2.6	2
12	Photo-Isomerization Kinetics of Azobenzene Containing Surfactant Conjugated with Polyelectrolyte. Molecules, 2021, 26, 19.	3.8	13
13	Light driven guided and self-organized motion of mesoporous colloidal particles. Soft Matter, 2020, 16, 1148-1155.	2.7	20
14	Adsorption of Photoresponsive Surfactants at Solidâ€“Liquid Interfaces. Langmuir, 2020, 36, 14009-14018.	3.5	16
15	Some Features of Surfactant Organization in DNA Solutions at Various NaCl Concentrations. ACS Omega, 2020, 5, 18234-18243.	3.5	3
16	Formation of half-period surface relief gratings in azobenzene containing polymer films. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	10
17	Self-Assembly of Molecular Brushes with Polyimide Backbone and Amphiphilic Block Copolymer Side Chains in Selective Solvents. Polymers, 2020, 12, 2922.	4.5	12
18	Light driven diffusioosmotic repulsion and attraction of colloidal particles. Journal of Chemical Physics, 2020, 152, 194703.	3.0	14

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19	Extremely Long-Range Light-Driven Repulsion of Porous Microparticles. Langmuir, 2020, 36, 6994-7004.	3.5	17
20	Kinetics of photo-isomerization of azobenzene containing surfactants. Journal of Chemical Physics, 2020, 152, 024904.	3.0	50
21	Polarization controlled fine structure of diffraction spots from an optically induced grating. Applied Physics Letters, 2020, 116, .	3.3	6
22	Light induced reversible structuring of photosensitive polymer films. RSC Advances, 2019, 9, 20295-20305.	3.6	36
23	Solving an old puzzle: fine structure of diffraction spots from an azo-polymer surface relief grating. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	9
24	Light-Induced Structuring of Photosensitive Polymer Brushes. ACS Applied Polymer Materials, 2019, 1, 3017-3026.	4.4	11
25	Light-driven motion of self-propelled porous Janus particles. Applied Physics Letters, 2019, 115, .	3.3	14
26	Photo-isomerization of azobenzene containing surfactants induced by near-infrared light using upconversion nanoparticles as mediator. Journal of Physics Condensed Matter, 2019, 31, 125201.	1.8	7
27	Light-Induced Deformation of Azobenzene-Containing Colloidal Spheres: Calculation and Measurement of Opto-Mechanical Stresses. Journal of Physical Chemistry B, 2018, 122, 2001-2009.	2.6	28
28	Remote control of soft nano-objects by light using azobenzene containing surfactants. Journal Physics D: Applied Physics, 2018, 51, 013002.	2.8	61
29	DNA Interaction with Head-to-Tail Associates of Cationic Surfactants Prevents Formation of Compact Particles. Molecules, 2018, 23, 1576.	3.8	8
30	Fabrication of Flexible Hydrogel Sheets Featuring Periodically Spaced Circular Holes with Continuously Adjustable Size in Real Time. ACS Applied Materials & Interfaces, 2018, 10, 30844-30851.	8.0	5
31	Photo-assisted adsorption of gold nanoparticles onto a silicon substrate. Applied Physics Letters, 2017, 110, 133104.	3.3	6
32	Photoswitching of azobenzene-containing self-assembled monolayers as a tool for control over silicon surface electronic properties. Journal of Chemical Physics, 2017, 146, 104703.	3.0	15
33	Photoisomers of Azobenzene Star with a Flat Core: Theoretical Insights into Multiple States from DFT and MD Perspective. Journal of Physical Chemistry B, 2017, 121, 8854-8867.	2.6	23
34	Mass production of polymer nano-wires filled with metal nano-particles. Scientific Reports, 2017, 7, 8506.	3.3	6
35	Communication: Light driven remote control of microgelsâ€™ size in the presence of photosensitive surfactant: Complete phase diagram. Journal of Chemical Physics, 2017, 147, 031101.	3.0	22
36	Photosensitive microgels containing azobenzene surfactants of different charges. Physical Chemistry Chemical Physics, 2017, 19, 108-117.	2.8	52

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37	Motion of Adsorbed Nano-Particles on Azobenzene Containing Polymer Films. Molecules, 2016, 21, 1663.	3.8	10
38	Light-Induced Reversible Change of Roughness and Thickness of Photosensitive Polymer Brushes. ACS Applied Materials & Interfaces, 2016, 8, 19175-19184.	8.0	39
39	Photosensitive Peptidomimetic for Light-Controlled, Reversible DNA Compaction. Biomacromolecules, 2016, 17, 1959-1968.	5.4	14
40	Surface tension and dilation rheology of DNA solutions in mixtures with azobenzene-containing cationic surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 505, 186-192.	4.7	6
41	Manipulation of small particles at solid liquid interface: light driven diffusioosmosis. Scientific Reports, 2016, 6, 36443.	3.3	67
42	Polymer brushes modified by photosensitive azobenzene containing polyamines. Polymer, 2016, 98, 421-428.	3.8	25
43	A comparative study of photoinduced deformation in azobenzene containing polymer films. Soft Matter, 2016, 12, 2593-2603.	2.7	52
44	Surface pressureâ€induced isothermal 2Dâ€•to 3Dâ€transitions in Langmuir films of poly(Îµâ€caprolactone)s and oligo(Îµâ€caprolactone) based polyesterurethanes. Polymers for Advanced Technologies, 2015, 26, 1411-1420.	3.2	8
45	Selective mass transport of azobenzeneâ€containing photosensitive films towards or away from the light intensity. Journal of the Society for Information Display, 2015, 23, 154-162.	2.1	17
46	Light-Tunable Plasmonic Nanoarchitectures Using Gold Nanoparticleâ€“Azobenzene-Containing Cationic Surfactant Complexes. Journal of Physical Chemistry C, 2015, 119, 3762-3770.	3.1	27
47	Thermal Cis-to-Trans Isomerization of Azobenzene-Containing Molecules Enhanced by Gold Nanoparticles: An Experimental and Theoretical Study. Journal of Physical Chemistry C, 2015, 119, 17369-17377.	3.1	52
48	Making polymer brush photosensitive with azobenzene containing surfactants. Polymer, 2015, 79, 65-72.	3.8	34
49	Phase diagrams of DNAâ€“photosensitive surfactant complexes: Effect of ionic strength and surfactant structure. Journal of Chemical Physics, 2014, 141, 164904.	3.0	24
50	Interaction of photosensitive surfactant with DNA and poly acrylic acid. Journal of Chemical Physics, 2014, 140, 044907.	3.0	35
51	Photosensitive surfactants: Micellization and interaction with DNA. Journal of Chemical Physics, 2014, 140, 044906.	3.0	50
52	Photosensitive response of azobenzene containing films towards pure intensity or polarization interference patterns. Applied Physics Letters, 2014, 105, .	3.3	42
53	Effect of pH, co-monomer content, and surfactant structure on the swelling behavior of microgel-azobenzene-containing surfactant complex. Polymer, 2014, 55, 6513-6518.	3.8	24
54	Polarized 3D Raman and nanoscale near-field optical microscopy of optically inscribed surface relief gratings: chromophore orientation in azo-doped polymer films. Soft Matter, 2014, 10, 1544.	2.7	23

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55	Mapping a Plasmonic Hologram with Photosensitive Polymer Films: Standing versus Propagating Waves. ACS Applied Materials & Interfaces, 2014, 6, 14174-14180.	8.0	14
56	Confocal Raman Microscopy and AFM Study of the Interface Between the Photosensitive Polymer Layer and Multilayer Graphene. Soft Materials, 2014, 12, S98-S105.	1.7	8
57	Theory of Collapse and Overcharging of a Polyelectrolyte Microgel Induced by an Oppositely Charged Surfactant. Macromolecules, 2014, 47, 5388-5399.	4.8	39
58	Graphene Multilayer as Nanosized Optical Strain Gauge for Polymer Surface Relief Gratings. Nano Letters, 2014, 14, 5754-5760.	9.1	51
59	Probing Opto-Mechanical Stresses within Azobenzene-Containing Photosensitive Polymer Films by a Thin Metal Film Placed Above. ACS Applied Materials & Interfaces, 2014, 6, 11333-11340.	8.0	27
60	Soft Matter Beats Hard Matter: Rupturing of Thin Metallic Films Induced by Mass Transport in Photosensitive Polymer Films. ACS Applied Materials & Interfaces, 2013, 5, 7743-7747.	8.0	44
61	The effect of illumination on the parameters of the polymer layer deposited from solution onto a semiconductor substrate. Technical Physics Letters, 2013, 39, 656-659.	0.7	5
62	Opto-Mechanical Scission of Polymer Chains in Photosensitive Diblock-Copolymer Brushes. Langmuir, 2013, 29, 13967-13974.	3.5	43
63	Structuring of photosensitive material below diffraction limit using far field irradiation. Applied Physics A: Materials Science and Processing, 2013, 113, 263-272.	2.3	32
64	Photocontrolled Adsorption of Polyelectrolyte Molecules on a Silicon Substrate. Langmuir, 2013, 29, 16058-16065.	3.5	14
65	Atomic force microscopy nanolithography: fabrication of metallic nano-slits using silicon nitride tips. Journal of Materials Science, 2013, 48, 3863-3869.	3.7	7
66	Controlled Topography Change of Subdiffraction Structures Based on Photosensitive Polymer Films Induced by Surface Plasmon Polaritons. ACS Applied Materials & Interfaces, 2013, 5, 6009-6016.	8.0	18
67	Conductivity behavior of very thin gold films ruptured by mass transport in photosensitive polymer film. Applied Physics Letters, 2013, 103, 253101.	3.3	6
68	In-situ atomic force microscopy study of the mechanism of surface relief grating formation in photosensitive polymer films. Journal of Applied Physics, 2013, 113, .	2.5	68
69	Visualization of surface plasmon interference by imprinting intensity patterns on a photosensitive polymer. Nanotechnology, 2012, 23, 485304.	2.6	11
70	Effect of a Nanodimensional Polyethylenimine Layer on Currentâ€“Voltage Characteristics of Hybrid Structures Based on Single-Crystal Silicon. Journal of Electronic Materials, 2012, 41, 3427-3435.	2.2	6
71	Stretching and distortion of a photosensitive polymer film by surface plasmon generated near fields in the vicinity of a nanometer sized metal pin hole. Nanotechnology, 2012, 23, 155301.	2.6	12
72	Surface plasmon nanolithography: impact of dynamically varying near-field boundary conditions at the airâ€“polymer interface. Journal of Materials Chemistry, 2012, 22, 5945.	6.7	23

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73	Stimuli-Responsive Materials: Light-Controlled Reversible Manipulation of Microgel Particle Size Using Azobenzene-Containing Surfactant (Adv. Funct. Mater. 23/2012). Advanced Functional Materials, 2012, 22, 5064-5064.	14.9	1
74	Near-Field Induced Reversible Structuring of Photosensitive Polymer Films: Gold Versus Silver Nano-antennas. Plasmonics, 2012, 7, 535-542.	3.4	15
75	Lightâ€Controlled Reversible Manipulation of Microgel Particle Size Using Azobeneneâ€Containing Surfactant. Advanced Functional Materials, 2012, 22, 5000-5009.	14.9	97
76	Photomechanical Degrafting of Azo-Functionalized Poly(methacrylic acid) (PMAA) Brushes. Journal of Physical Chemistry B, 2011, 115, 10431-10438.	2.6	45
77	Local chemical composition of nanophase-separated polymer brushes. Physical Chemistry Chemical Physics, 2011, 13, 11620.	2.8	7
78	Impact of Temperature on the LB Patterning of DPPC on Mica. Langmuir, 2011, 27, 12354-12360.	3.5	6
79	Light-Induced Chain Scission in Photosensitive Polymer Brushes. Macromolecules, 2011, 44, 7372-7377.	4.8	49
80	DNA compaction by azobenzene-containing surfactant. Physical Review E, 2011, 84, 021909.	2.1	39
81	Reversible structuring of photosensitive polymer films by surface plasmon near field radiation. Soft Matter, 2011, 7, 4174.	2.7	32
82	Structural Characterization of a Spin-Assisted Colloidâ˜Polyelectrolyte Assembly: Stratified Multilayer Thin Films. Langmuir, 2010, 26, 18499-18502.	3.5	44
83	Smart polymer surfaces: mapping chemical landscapes on the nanometre scale. Soft Matter, 2010, 6, 3764.	2.7	18
84	The design of thin polymer membranes filled with magnetic particles on a microstructured silicon surface. Nanotechnology, 2009, 20, 255301.	2.6	14
85	Polymer Brushes with Nanometerâ€Scale Gradients. Advanced Materials, 2009, 21, 4706-4710.	21.0	56
86	Memory of Surface Patterns in Mixed Polymer Brushes:â€‰ Simulation and Experiment. Langmuir, 2007, 23, 279-285.	3.5	64
87	Local Composition of Nanophase-Separated Mixed Polymer Brushes. Macromolecules, 2006, 39, 3056-3064.	4.8	54
88	Domain Memory of Mixed Polymer Brushes. Langmuir, 2006, 22, 4660-4667.	3.5	26
89	Dynamically Reconfigurable Polymer Films: Impact on Nanomotion. Advanced Materials, 2006, 18, 2359-2362.	21.0	67
90	Peptide-Polymer Hybrid Nanotubes. Angewandte Chemie - International Edition, 2005, 44, 3297-3301.	13.8	200

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91	Molecular weight determination of an azobenzene-derivatized poly(amic acid) by AFM. Journal of Materials Chemistry, 2005, 15, 4069.	6.7	6
92	On the Formation of Molecular Terraces. Langmuir, 2005, 21, 8250-8254.	3.5	2
93	Motion of nano-objects on polymer brushes. Polymer, 2004, 45, 8279-8297.	3.8	97
94	Spontaneous Curvature of Comblike Polymers at a Flat Interface. Macromolecules, 2004, 37, 3918-3923.	4.8	65
95	Initial Salivary Pellicle Formation on Solid Substrates Studied by AFM. Journal of Nanoscience and Nanotechnology, 2004, 4, 532-538.	0.9	31
96	Measuring Molecular Weight by Atomic Force Microscopy. Journal of the American Chemical Society, 2003, 125, 6725-6728.	13.7	110
97	Can polymer brushes induce motion of nano-objects?. Nanotechnology, 2003, 14, 1098-1108.	2.6	55
98	pH-Responsive Molecular Nanocarriers Based on Dendritic Core-Shell Architectures. Angewandte Chemie - International Edition, 2002, 41, 4252-4256.	13.8	215
99	Single Molecule Rodâ^'Globule Phase Transition for Brush Molecules at a Flat Interface. Macromolecules, 2001, 34, 8354-8360.	4.8	196
100	Epitaxial Adsorption of Monodendron-Jacketed Linear Polymers on Highly Oriented Pyrolytic Graphite. Langmuir, 2000, 16, 6862-6867.	3.5	70
101	Design and Structural Analysis of the First Spherical Monodendron Self-Organizable in a Cubic Lattice. Journal of the American Chemical Society, 2000, 122, 4249-4250.	13.7	135
102	Molecular Conformations of Monodendron-Jacketed Polymers by Scanning Force Microscopy. Macromolecules, 1999, 32, 2653-2660.	4.8	116
103	Main Chain Conformation and Anomalous Elution Behavior of Cylindrical Brushes As Revealed by GPC/MALLS, Light Scattering, and SFMâ€¡. Macromolecules, 1999, 32, 2629-2637.	4.8	254
104	Visualizable Cylindrical Macromolecules with Controlled Stiffness from Backbones Containing Libraries of Self-Assembling Dendritic Side Groups. Journal of the American Chemical Society, 1998, 120, 8619-8631.	13.7	312
105	Adsorption Kinetics of a Photosensitive Surfactant Inside Microgels. Macromolecules, 0, , .	4.8	9
106	Ein dualâ€responsives pHâ€•und lichtschaltbares Tensid mit einer Spiropyranâ€Einheit: Untersuchungen zum Schaltmechanismus und Anwendung zur Steuerung von EmulsionsstabilitÃten. Angewandte Chemie, 0, , .	2.0	1
107	Local Direction of Optomechanical Stress in Azobenzene Containing Polymers During Surface Relief Grating Formation. Macromolecular Materials and Engineering, 0, , 2100990.	3.6	7