

Svetlana A Santer

List of Publications by Citations

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101
papers

3,472
citations

33
h-index

57
g-index

135
ext. papers

3,760
ext. citations

5.6
avg, IF

5.28
L-index

#	Paper	IF	Citations
101	Visualizable Cylindrical Macromolecules with Controlled Stiffness from Backbones Containing Libraries of Self-Assembling Dendritic Side Groups. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8619-8631	16.4	286
100	Main Chain Conformation and Anomalous Elution Behavior of Cylindrical Brushes As Revealed by GPC/MALLS, Light Scattering, and SFM. <i>Macromolecules</i> , 1999 , 32, 2629-2637	5.5	236
99	pH-responsive molecular nanocarriers based on dendritic core-shell architectures. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4252-6	16.4	197
98	Peptide-polymer hybrid nanotubes. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3297-301	16.4	193
97	Single Molecule Rod-to-Globule Phase Transition for Brush Molecules at a Flat Interface. <i>Macromolecules</i> , 2001 , 34, 8354-8360	5.5	182
96	Design and Structural Analysis of the First Spherical Monodendron Self-Organizable in a Cubic Lattice. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4249-4250	16.4	121
95	Molecular Conformations of Monodendron-Jacketed Polymers by Scanning Force Microscopy. <i>Macromolecules</i> , 1999 , 32, 2653-2660	5.5	104
94	Measuring molecular weight by atomic force microscopy. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6725-8	16.4	101
93	Motion of nano-objects on polymer brushes. <i>Polymer</i> , 2004 , 45, 8279-8297	3.9	94
92	Light-Controlled Reversible Manipulation of Microgel Particle Size Using Azobenzene-Containing Surfactant. <i>Advanced Functional Materials</i> , 2012 , 22, 5000-5009	15.6	82
91	Dynamically Reconfigurable Polymer Films: Impact on Nanomotion. <i>Advanced Materials</i> , 2006 , 18, 2359-2362	16.4	64
90	Epitaxial Adsorption of Monodendron-Jacketed Linear Polymers on Highly Oriented Pyrolytic Graphite. <i>Langmuir</i> , 2000 , 16, 6862-6867	4	64
89	Spontaneous Curvature of Comblike Polymers at a Flat Interface. <i>Macromolecules</i> , 2004 , 37, 3918-3923	5.5	62
88	In-situ atomic force microscopy study of the mechanism of surface relief grating formation in photosensitive polymer films. <i>Journal of Applied Physics</i> , 2013 , 113, 224304	2.5	61
87	Memory of surface patterns in mixed polymer brushes: simulation and experiment. <i>Langmuir</i> , 2007 , 23, 279-85	4	61
86	Manipulation of small particles at solid liquid interface: light driven diffusioosmosis. <i>Scientific Reports</i> , 2016 , 6, 36443	4.9	54
85	Can polymer brushes induce motion of nano-objects?. <i>Nanotechnology</i> , 2003 , 14, 1098-1108	3.4	53

84	Polymer Brushes with Nanometer-Scale Gradients. <i>Advanced Materials</i> , 2009 , 21, 4706-4710	24	52
83	Local Composition of Nanophase-Separated Mixed Polymer Brushes. <i>Macromolecules</i> , 2006 , 39, 3056-3064	5	51
82	Graphene multilayer as nanosized optical strain gauge for polymer surface relief gratings. <i>Nano Letters</i> , 2014 , 14, 5754-60	11.5	47
81	A comparative study of photoinduced deformation in azobenzene containing polymer films. <i>Soft Matter</i> , 2016 , 12, 2593-603	3.6	45
80	Light-Induced Chain Scission in Photosensitive Polymer Brushes. <i>Macromolecules</i> , 2011 , 44, 7372-7377	5.5	43
79	Soft matter beats hard matter: rupturing of thin metallic films induced by mass transport in photosensitive polymer films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7743-7	9.5	42
78	Structural characterization of a spin-assisted colloid-polyelectrolyte assembly: stratified multilayer thin films. <i>Langmuir</i> , 2010 , 26, 18499-502	4	42
77	Thermal Cis-to-Trans Isomerization of Azobenzene-Containing Molecules Enhanced by Gold Nanoparticles: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17369-17377	3.8	41
76	Photomechanical degrafting of azo-functionalized poly(methacrylic acid) (PMAA) brushes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10431-8	3.4	41
75	Opto-mechanical scission of polymer chains in photosensitive diblock-copolymer brushes. <i>Langmuir</i> , 2013 , 29, 13967-74	4	40
74	Photosensitive microgels containing azobenzene surfactants of different charges. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 108-117	3.6	39
73	Remote control of soft nano-objects by light using azobenzene containing surfactants. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 013002	3	38
72	Photosensitive surfactants: micellization and interaction with DNA. <i>Journal of Chemical Physics</i> , 2014 , 140, 044906	3.9	38
71	Photosensitive response of azobenzene containing films towards pure intensity or polarization interference patterns. <i>Applied Physics Letters</i> , 2014 , 105, 051601	3.4	37
70	Light-Induced Reversible Change of Roughness and Thickness of Photosensitive Polymer Brushes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19175-84	9.5	35
69	DNA compaction by azobenzene-containing surfactant. <i>Physical Review E</i> , 2011 , 84, 021909	2.4	34
68	Making polymer brush photosensitive with azobenzene containing surfactants. <i>Polymer</i> , 2015 , 79, 65-72	3.9	32
67	Reversible structuring of photosensitive polymer films by surface plasmon near field radiation. <i>Soft Matter</i> , 2011 , 7, 4174	3.6	32

66	Theory of Collapse and Overcharging of a Polyelectrolyte Microgel Induced by an Oppositely Charged Surfactant. <i>Macromolecules</i> , 2014 , 47, 5388-5399	5.5	29
65	Structuring of photosensitive material below diffraction limit using far field irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 263-272	2.6	29
64	Initial salivary pellicle formation on solid substrates studied by AFM. <i>Journal of Nanoscience and Nanotechnology</i> , 2004 , 4, 532-8	1.3	27
63	Light-Tunable Plasmonic Nanoarchitectures Using Gold Nanoparticle-Azobenzene-Containing Cationic Surfactant Complexes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3762-3770	3.8	26
62	Interaction of photosensitive surfactant with DNA and poly acrylic acid. <i>Journal of Chemical Physics</i> , 2014 , 140, 044907	3.9	26
61	Domain memory of mixed polymer brushes. <i>Langmuir</i> , 2006 , 22, 4660-7	4	26
60	Polymer brushes modified by photosensitive azobenzene containing polyamines. <i>Polymer</i> , 2016 , 98, 4214-428	3.9	25
59	Probing opto-mechanical stresses within azobenzene-containing photosensitive polymer films by a thin metal film placed above. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11333-40	9.5	24
58	Surface plasmon nanolithography: impact of dynamically varying near-field boundary conditions at the air-polymer interface. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5945		23
57	Light-Induced Deformation of Azobenzene-Containing Colloidal Spheres: Calculation and Measurement of Opto-Mechanical Stresses. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2001-2009	3.4	22
56	Polarized 3D Raman and nanoscale near-field optical microscopy of optically inscribed surface relief gratings: chromophore orientation in azo-doped polymer films. <i>Soft Matter</i> , 2014 , 10, 1544-54	3.6	22
55	Kinetics of photo-isomerization of azobenzene containing surfactants. <i>Journal of Chemical Physics</i> , 2020 , 152, 024904	3.9	21
54	Light induced reversible structuring of photosensitive polymer films.. <i>RSC Advances</i> , 2019 , 9, 20295-20305	3.7	21
53	Effect of pH, co-monomer content, and surfactant structure on the swelling behavior of microgel-azobenzene-containing surfactant complex. <i>Polymer</i> , 2014 , 55, 6513-6518	3.9	20
52	Phase diagrams of DNA-photosensitive surfactant complexes: effect of ionic strength and surfactant structure. <i>Journal of Chemical Physics</i> , 2014 , 141, 164904	3.9	19
51	Smart polymer surfaces: mapping chemical landscapes on the nanometre scale. <i>Soft Matter</i> , 2010 , 6, 3764	3.6	18
50	Selective mass transport of azobenzene-containing photosensitive films towards or away from the light intensity. <i>Journal of the Society for Information Display</i> , 2015 , 23, 154-162	2.1	17
49	Controlled topography change of subdiffraction structures based on photosensitive polymer films induced by surface plasmon polaritons. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6009-16	9.5	17

48	Communication: Light driven remote control of microgels size in the presence of photosensitive surfactant: Complete phase diagram. <i>Journal of Chemical Physics</i> , 2017 , 147, 031101	3.9	15
47	Near-Field Induced Reversible Structuring of Photosensitive Polymer Films: Gold Versus Silver Nano-antennas. <i>Plasmonics</i> , 2012 , 7, 535-542	2.4	15
46	Photocontrolled adsorption of polyelectrolyte molecules on a silicon substrate. <i>Langmuir</i> , 2013 , 29, 16058-65	4.8	14
45	Mapping a plasmonic hologram with photosensitive polymer films: standing versus propagating waves. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14174-80	9.5	13
44	Photoisomers of Azobenzene Star with a Flat Core: Theoretical Insights into Multiple States from DFT and MD Perspective. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8854-8867	3.4	13
43	The design of thin polymer membranes filled with magnetic particles on a microstructured silicon surface. <i>Nanotechnology</i> , 2009 , 20, 255301	3.4	13
42	Photosensitive Peptidomimetic for Light-Controlled, Reversible DNA Compaction. <i>Biomacromolecules</i> , 2016 , 17, 1959-68	6.9	13
41	Extremely Long-Range Light-Driven Repulsion of Porous Microparticles. <i>Langmuir</i> , 2020 , 36, 6994-7004	4	12
40	Stretching and distortion of a photosensitive polymer film by surface plasmon generated near fields in the vicinity of a nanometer sized metal pin hole. <i>Nanotechnology</i> , 2012 , 23, 155301	3.4	12
39	Light driven guided and self-organized motion of mesoporous colloidal particles. <i>Soft Matter</i> , 2020 , 16, 1148-1155	3.6	11
38	Visualization of surface plasmon interference by imprinting intensity patterns on a photosensitive polymer. <i>Nanotechnology</i> , 2012 , 23, 485304	3.4	10
37	Light-driven motion of self-propelled porous Janus particles. <i>Applied Physics Letters</i> , 2019 , 115, 263701	3.4	10
36	Photoswitching of azobenzene-containing self-assembled monolayers as a tool for control over silicon surface electronic properties. <i>Journal of Chemical Physics</i> , 2017 , 146, 104703	3.9	9
35	Light driven diffusioosmotic repulsion and attraction of colloidal particles. <i>Journal of Chemical Physics</i> , 2020 , 152, 194703	3.9	8
34	Confocal Raman Microscopy and AFM Study of the Interface Between the Photosensitive Polymer Layer and Multilayer Graphene. <i>Soft Materials</i> , 2014 , 12, S98-S105	1.7	8
33	Surface pressure-induced isothermal 2D- to 3D-transitions in Langmuir films of poly(ϵ -caprolactone)s and oligo(ϵ -caprolactone) based polyesterurethanes. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1411-1420	3.2	8
32	Motion of Adsorbed Nano-Particles on Azobenzene Containing Polymer Films. <i>Molecules</i> , 2016 , 21,	4.8	8
31	Atomic force microscopy nanolithography: fabrication of metallic nano-slits using silicon nitride tips. <i>Journal of Materials Science</i> , 2013 , 48, 3863-3869	4.3	7

30	Light-Induced Structuring of Photosensitive Polymer Brushes. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3017-3026	4.3	6
29	DNA Interaction with Head-to-Tail Associates of Cationic Surfactants Prevents Formation of Compact Particles. <i>Molecules</i> , 2018 , 23,	4.8	6
28	Effect of a Nanodimensional Polyethylenimine Layer on Current-Voltage Characteristics of Hybrid Structures Based on Single-Crystal Silicon. <i>Journal of Electronic Materials</i> , 2012 , 41, 3427-3435	1.9	6
27	Local chemical composition of nanophase-separated polymer brushes. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11620-6	3.6	6
26	Impact of temperature on the LB patterning of DPPC on mica. <i>Langmuir</i> , 2011 , 27, 12354-60	4	6
25	Molecular weight determination of an azobenzene-derivatized poly(amic acid) by AFM. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4069		6
24	Photo-assisted adsorption of gold nanoparticles onto a silicon substrate. <i>Applied Physics Letters</i> , 2017 , 110, 133104	3.4	5
23	Self-Assembly of Molecular Brushes with Polyimide Backbone and Amphiphilic Block Copolymer Side Chains in Selective Solvents. <i>Polymers</i> , 2020 , 12,	4.5	5
22	Fabrication of Flexible Hydrogel Sheets Featuring Periodically Spaced Circular Holes with Continuously Adjustable Size in Real Time. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30844-30851	9.5	5
21	Solving an old puzzle: fine structure of diffraction spots from an azo-polymer surface relief grating. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	5
20	The effect of illumination on the parameters of the polymer layer deposited from solution onto a semiconductor substrate. <i>Technical Physics Letters</i> , 2013 , 39, 656-659	0.7	5
19	Adsorption of Photoresponsive Surfactants at Solid-Liquid Interfaces. <i>Langmuir</i> , 2020 , 36, 14009-14018	4	5
18	Surface tension and dilation rheology of DNA solutions in mixtures with azobenzene-containing cationic surfactant. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 505, 186-192	5.1	5
17	Mass production of polymer nano-wires filled with metal nano-particles. <i>Scientific Reports</i> , 2017 , 7, 8506	4.9	4
16	Conductivity behavior of very thin gold films ruptured by mass transport in photosensitive polymer film. <i>Applied Physics Letters</i> , 2013 , 103, 253101	3.4	4
15	Formation of half-period surface relief gratings in azobenzene containing polymer films. <i>Applied Physics B: Lasers and Optics</i> , 2020 , 126, 1	1.9	4
14	Photo-isomerization of azobenzene containing surfactants induced by near-infrared light using upconversion nanoparticles as mediator. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 125201	1.8	4
13	Quantification of ordering in active light driven colloids. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 866-875	9.3	4

12	Tuning the Volume Phase Transition Temperature of Microgels by Light. <i>Advanced Functional Materials</i> , 2107946	15.6	4
11	Polarization controlled fine structure of diffraction spots from an optically induced grating. <i>Applied Physics Letters</i> , 2020, 116, 051601	3.4	3
10	Light-induced manipulation of passive and active microparticles. <i>European Physical Journal E</i> , 2021, 44, 50	1.5	3
9	On the formation of molecular terraces. <i>Langmuir</i> , 2005, 21, 8250-4	4	2
8	Photo-Isomerization Kinetics of Azobenzene Containing Surfactant Conjugated with Polyelectrolyte. <i>Molecules</i> , 2020, 26,	4.8	2
7	Photoisomerization of an Azobenzene-Containing Surfactant Within a Micelle. <i>ChemPhotoChem</i> , 2021, 5, 926	3.3	2
6	Local Direction of Optomechanical Stress in Azobenzene Containing Polymers During Surface Relief Grating Formation. <i>Macromolecular Materials and Engineering</i> , 2100990	3.9	2
5	Stimuli-Responsive Materials: Light-Controlled Reversible Manipulation of Microgel Particle Size Using Azobenzene-Containing Surfactant (Adv. Funct. Mater. 23/2012). <i>Advanced Functional Materials</i> , 2012, 22, 5064-5064	15.6	1
4	Some Features of Surfactant Organization in DNA Solutions at Various NaCl Concentrations. <i>ACS Omega</i> , 2020, 5, 18234-18243	3.9	1
3	How to Make a Surface Act as a Micropump. <i>Advanced Materials Interfaces</i> , 2102395	4.6	1
2	Cis-Isomers of Photosensitive Cationic Azobenzene Surfactants in DNA Solutions at Different NaCl Concentrations: Experiment and Modeling. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11197-11207	3.4	0
1	Tuning the Volume Phase Transition Temperature of Microgels by Light (Adv. Funct. Mater. 2/2022). <i>Advanced Functional Materials</i> , 2022, 32, 2270013	15.6	