

# Nikolai Severin

## List of Publications by Year in descending order

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63  
papers

3,968  
citations

159585

30  
h-index

128289

60  
g-index

64  
all docs

64  
docs citations

64  
times ranked

6125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7450-7455.	13.8	523
2	Cyclodextrin-threaded conjugated polyrotaxanes as insulated molecular wires with reduced interstrand interactions. <i>Nature Materials</i> , 2002, 1, 160-164.	27.5	471
3	Ultrafast nonequilibrium carrier dynamics in a single graphene layer. <i>Physical Review B</i> , 2011, 83, .	3.2	369
4	Epitaxial Composite Layers of Electron Donors and Acceptors from Very Large Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2002, 124, 9454-9457.	13.7	158
5	Topochemical Polymerization in Supramolecular Polymers of Oligopeptide-Functionalized Diacetylenes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5383-5386.	13.8	137
6	Rapid Trench Channeling of Graphenes with Catalytic Silver Nanoparticles. <i>Nano Letters</i> , 2009, 9, 457-461.	9.1	136
7	Hydration of Bilayered Graphene Oxide. <i>Nano Letters</i> , 2014, 14, 3993-3998.	9.1	135
8	Self-Assembling Peptide-Polymer Conjugates Comprising (d-alt-l)-Cyclopeptides as Aggregator Domains. <i>Macromolecules</i> , 2006, 39, 7831-7838.	4.8	111
9	Perfectly Straight Nanostructures of Metallo-supramolecular Coordination-Polyelectrolyte Amphiphile Complexes on Graphite. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3681-3683.	13.8	108
10	Extremely Long Dendronized Polymers: Synthesis, Quantification of Structure Perfection, Individualization, and SFM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4666-4669.	13.8	106
11	A Hexa-peri-hexabenzocoronene Cyclophane: An Addition to the Toolbox for Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2004, 126, 1402-1407.	13.7	100
12	Nanostructural Evolution and Self-Healing Mechanism of Micellar Hydrogels. <i>Macromolecules</i> , 2016, 49, 2281-2287.	4.8	95
13	Reversible Dewetting of a Molecularly Thin Fluid Water Film in a Soft Graphene-Mica Slit Pore. <i>Nano Letters</i> , 2012, 12, 774-779.	9.1	90
14	Macromolecular Fractionation of Rod-Like Polymers at Atomically Flat Solid-Liquid Interfaces. <i>Advanced Materials</i> , 2000, 12, 579-582.	21.0	78
15	Manipulation and Overstretching of Genes on Solid Substrates. <i>Nano Letters</i> , 2004, 4, 577-579.	9.1	77
16	Exfoliation of Crystalline 2D Carbon Nitride: Thin Sheets, Scrolls and Bundles via Mechanical and Chemical Routes. <i>Macromolecular Rapid Communications</i> , 2013, 34, 850-854.	3.9	74
17	Synthesis of Amphiphilic Poly(p-phenylene)s with Pendant Dendrons and Linear Chains. <i>Macromolecules</i> , 2000, 33, 2688-2694.	4.8	68
18	Self-Assembly of Perylene Monoimide Substituted Hexa-peri-hexabenzocoronenes: Dyads and Triads at Surfaces. <i>Advanced Materials</i> , 2006, 18, 1317-1321.	21.0	66

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19	Functionalized Graphene as Extracellular Matrix Mimics: Toward Well-Defined 2D Nanomaterials for Multivalent Virus Interactions. <i>Advanced Functional Materials</i> , 2017, 27, 1606477.	14.9	65
20	Twinned Growth of Metal-Free, Triazine-Based Photocatalyst Films as Mixed-Dimensional (2D/3D) van der Waals Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1703399.	21.0	59
21	Synthesis of a Novel Chiral Squaraine Dye and Its Unique Aggregation Behavior in Solution and in Self-Assembled Monolayers. <i>Advanced Materials</i> , 2006, 18, 1271-1275.	21.0	56
22	Glassy State of Single Dendronized Polymer Chains. <i>Macromolecules</i> , 2004, 37, 2484-2489.	4.8	49
23	Molecular Level Control over Hierarchical Structure Formation and Polymerization of Oligopeptide-Polymer Conjugates. <i>Advanced Materials</i> , 2008, 20, 409-414.	21.0	46
24	High contrast optical detection of single graphenes on optically transparent substrates. <i>Journal of Applied Physics</i> , 2010, 108, 106101.	2.5	37
25	Fully Extended Polyelectrolyte-Amphiphile Complexes Adsorbed on Graphite. <i>Journal of the American Chemical Society</i> , 2004, 126, 3696-3697.	13.7	35
26	Title is missing!. <i>Angewandte Chemie</i> , 2002, 114, 3833-3835.	2.0	33
27	Consecutive Conformational Transitions and Deaggregation of Multiple-Helical Poly(diacetylene)s. <i>Nano Letters</i> , 2008, 8, 1660-1666.	9.1	33
28	Delamination of graphite oxide in a liquid upon cooling. <i>Nanoscale</i> , 2015, 7, 12625-12630.	5.6	33
29	Origin of mechanical strain sensitivity of pentacene thin-film transistors. <i>Organic Electronics</i> , 2013, 14, 1323-1329.	2.6	32
30	Replication of Single Macromolecules with Graphene. <i>Nano Letters</i> , 2011, 11, 2436-2439.	9.1	30
31	Functional, Hierarchically Structured Poly(diacetylene)s via Supramolecular Self-Assembly. <i>Macromolecular Bioscience</i> , 2007, 7, 136-143.	4.1	29
32	Dynamics of Ethanol and Water Mixtures Observed in a Self-Adjusting Molecularly Thin Slit Pore. <i>Langmuir</i> , 2014, 30, 3455-3459.	3.5	29
33	Influence of graphene exfoliation on the properties of water-containing adlayers visualized by graphenes and scanning force microscopy. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 500-504.	9.4	28
34	Polyethylene (PEHD)/polypropylene (iPP) blends: mechanical properties, structure and morphology. <i>Polymer</i> , 1998, 39, 5283-5291.	3.8	25
35	A Core-First Preparation of Poly(3-alkylthiophene) Stars. <i>Macromolecular Symposia</i> , 2010, 291-292, 17-25.	0.7	24
36	Nanophase Separation in Monomolecularly Thin Water-Ethanol Films Controlled by Graphene. <i>Nano Letters</i> , 2015, 15, 1171-1176.	9.1	24

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37	Adsorption of Polyelectrolyte Molecules to a Nanostructured Monolayer of Amphiphiles. Nano Letters, 2006, 6, 1018-1022.	9.1	21
38	Morphology, Mechanical Stability, and Protective Properties of Ultrathin Gallium Oxide Coatings. Langmuir, 2015, 31, 5836-5842.	3.5	20
39	Single- and Double-Layer Graphenes as Ultrabarriers for Fluorescent Polymer Films. Journal of Physical Chemistry C, 2011, 115, 23057-23061.	3.1	19
40	Blowing DNA Bubbles. Nano Letters, 2006, 6, 2561-2566.	9.1	18
41	Porous organic cage crystals: characterising the porous crystal surface. Chemical Communications, 2012, 48, 11948.	4.1	16
42	Microstructure and Elastic Constants of Transition Metal Dichalcogenide Monolayers from Friction and Shear Force Microscopy. Advanced Materials, 2018, 30, e1803748.	21.0	16
43	Non-monotonous Wetting of Graphene-Mica and MoS <sub>2</sub> -Mica Interfaces with a Molecular Layer of Water. Langmuir, 2018, 34, 15228-15237.	3.5	15
44	Influence of interface hydration on sliding of graphene and molybdenum-disulfide single-layers. Journal of Colloid and Interface Science, 2019, 540, 142-147.	9.4	15
45	Biantennary oligoglycines and glyco-oligoglycines self-associating in aqueous medium. Beilstein Journal of Organic Chemistry, 2014, 10, 1372-1382.	2.2	14
46	Insight into the wetting of a graphene-mica slit pore with a monolayer of water. Physical Review B, 2017, 95, .	3.2	14
47	Nano-mechanical imaging reveals heterogeneous cross-link distribution in sulfur-vulcanized butadiene-styrene rubber comprising ZnO particles. Polymer, 2016, 107, 102-107.	3.8	12
48	Tuning Intermolecular Interactions in a Rodlike Polymer Assembled at Surfaces and in Solution. Langmuir, 2004, 20, 8955-8957.	3.5	9
49	Tomography of molecular nanographene double layers using scanning tunneling microscopy. Physical Review B, 2009, 80, .	3.2	9
50	Thermosensitive hollow Janus dumbbells. Colloid and Polymer Science, 2014, 292, 1785-1793.	2.1	9
51	Resonant Raman spectroscopy of nanostructured carbon-based materials: the molecular approach. AIP Conference Proceedings, 2004, , .	0.4	8
52	Extrinsic Localized Excitons in Patterned 2D Semiconductors. Advanced Functional Materials, 0, , 2203060.	14.9	8
53	Reversible Switching of Charge Transfer at the Graphene-Mica Interface with Intercalating Molecules. ACS Nano, 2020, 14, 11594-11604.	14.6	7
54	Self-Sorting of Polyelectrolyte-Amphiphile Complexes on a Graphite Surface. Macromolecules, 2007, 40, 5182-5186.	4.8	6

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55	Strongly enhanced Raman scattering of Cu-phthalocyanine sandwiched between graphene and Au(111). Chemical Communications, 2017, 53, 724-727.	4.1	6
56	Nitrogen-doped graphene as an alternative to ecotoxic zinc oxide in rubbers. Journal of Applied Polymer Science, 2018, 135, 46116.	2.6	4
57	Reconstructing interaction potentials in thin films from real-space images. Physical Review E, 2016, 93, 043306.	2.1	3
58	Shaping surfaces and interfaces of 2D materials on mica with intercalating water and ethanol. Molecular Physics, 2021, 119, .	1.7	3
59	Data scattering in scanning tunneling spectroscopy. Ultramicroscopy, 2008, 109, 85-90.	1.9	2
60	Statistics of Time-Dependent Rupture of Single ds-DNA. Journal of Physical Chemistry B, 2013, 117, 8875-8879.	2.6	2
61	Frontispiece: Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	13.8	0
62	Frontispiz: Triazine-Based Graphitic Carbon Nitride: a Two-Dimensional Semiconductor. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0
63	Interfacial Electric Fields Acting on Molecules at Solid Interfaces. Journal of Physical Chemistry C, 2022, 126, 6028-6035.	3.1	0