

Caroline A Ross

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9579860/publications.pdf>

Version: 2024-02-01

47
papers

1,313
citations

394286

19
h-index

360920

35
g-index

48
all docs

48
docs citations

48
times ranked

1873
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective sequential infiltration synthesis of ZnO in the liquid crystalline phase of silicon-containing rod-coil block copolymers. <i>Nanoscale</i> , 2022, 14, 1807-1813.	2.8	6
2	Annealing Process Dependence of the Self-Assembly of Rod-Coil Block Copolymer Thin Films. <i>Macromolecules</i> , 2021, 54, 1657-1664.	2.2	12
3	Bending Behavior and Directed Self-Assembly of Rod-Coil Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10437-10445.	4.0	11
4	Magneto-optical properties of InSb for infrared spectral filtering. <i>Journal of Applied Physics</i> , 2021, 129, 203104.	1.1	2
5	An antisite defect mechanism for room temperature ferroelectricity in orthoferrites. <i>Nature Communications</i> , 2021, 12, 4298.	5.8	32
6	Magnetism and site occupancy in epitaxial Y-rich yttrium iron garnet films. <i>Physical Review Materials</i> , 2021, 5, .	0.9	11
7	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. <i>Physical Review B</i> , 2021, 104, .	1.1	9
8	First-principles calculation of oxygen vacancy effects on the magnetic properties of the perovskite SrNiO_{3-x} <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
9	Metallic Nanomeshes Fabricated by Multimechanism Directed Self-Assembly. <i>ACS Nano</i> , 2021, 15, 16266-16276.	7.3	9
10	Selective Deposition of Copper on Self-Assembled Block Copolymer Surfaces <i>via</i> Physical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52931-52937.	4.0	8
11	Magnetic Domain Wall Based Synaptic and Activation Function Generator for Neuromorphic Accelerators. <i>Nano Letters</i> , 2020, 20, 1033-1040.	4.5	72
12	Voltage control of domain walls in magnetic nanowires for energy-efficient neuromorphic devices. <i>Nanotechnology</i> , 2020, 31, 145201.	1.3	9
13	Imparting Superhydrophobicity with a Hierarchical Block Copolymer Coating. <i>Small</i> , 2020, 16, e1905509.	5.2	25
14	Self-Directed Self-Assembly of 3D Tailored Block Copolymer Nanostructures. <i>ACS Nano</i> , 2020, 14, 15182-15192.	7.3	14
15	Machine Learning Predictions of Block Copolymer Self-Assembly. <i>Advanced Materials</i> , 2020, 32, e2005713.	11.1	34
16	Resolving Triblock Terpolymer Morphologies by Vapor-Phase Infiltration. <i>Chemistry of Materials</i> , 2020, 32, 5309-5316.	3.2	14
17	Voltage Control of Magnetism above Room Temperature in Epitaxial $\text{SrCo}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$. <i>ACS Nano</i> , 2020, 14, 8949-8957.	7.3	31
18	Vertical Lamellae Formed by Two-Step Annealing of a Rod-Coil Liquid Crystalline Block Copolymer Thin Film. <i>ACS Nano</i> , 2020, 14, 4289-4297.	7.3	17

#	ARTICLE	IF	CITATIONS
19	Epitaxial growth of the cubic L21-Mn _{2.6} Ga Heusler alloy on MgO(001). Applied Physics Letters, 2020, 116, 132407.	1.5	3
20	Tough and Strong: Cross-Lamella Design Imparts Multifunctionality to Biomimetic Nacre. ACS Nano, 2020, 14, 9771-9779.	7.3	41
21	Interfacial Dzyaloshinskii-Moriya interaction arising from rare-earth orbital magnetism in insulating magnetic oxides. Nature Communications, 2020, 11, 1090.	5.8	86
22	Nonlocal Detection of Out-of-Plane Magnetization in a Magnetic Insulator by Thermal Spin Drag. Physical Review Letters, 2020, 124, 027701.	2.9	13
23	Variable spin-charge conversion across metal-insulator transition. Nature Communications, 2020, 11, 476.	5.8	16
24	Commensurability-Driven Orientation Control during Block Copolymer Directed Self-Assembly. ACS Applied Materials & Interfaces, 2020, 12, 10852-10857.	4.0	5
25	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. Physical Review Materials, 2020, 4, .	0.9	19
26	Relativistic kinematics of a magnetic soliton. Science, 2020, 370, 1438-1442.	6.0	75
27	Universal perpendicular orientation of block copolymer microdomains using a filtered plasma. Nature Communications, 2019, 10, 2912.	5.8	41
28	Emergent symmetries in block copolymer epitaxy. Nature Communications, 2019, 10, 2974.	5.8	19
29	Ferromagnetic resonance of perpendicularly magnetized Tm ₃ Fe ₅ O ₁₂ /Pt heterostructures. Applied Physics Letters, 2019, 115, .	1.5	23
30	Three port logic gate using forward volume spin wave interference in a thin yttrium iron garnet film. Scientific Reports, 2019, 9, 16472.	1.6	27
31	Self-assembly of a silicon-containing side-chain liquid crystalline block copolymer in bulk and in thin films: kinetic pathway of a cylinder to sphere transition. Nanoscale, 2019, 11, 285-293.	2.8	18
32	Core-Shell and Zigzag Nanostructures from a Thin Film Silicon-Containing Conformationally Asymmetric Triblock Terpolymer. ACS Macro Letters, 2019, 8, 852-858.	2.3	11
33	Perpendicular magnetic anisotropy and spin mixing conductance in polycrystalline europium iron garnet thin films. Applied Physics Letters, 2019, 114, .	1.5	35
34	In Situ Study of ABC Triblock Terpolymer Self-Assembly under Solvent Vapor Annealing. Macromolecules, 2019, 52, 1853-1863.	2.2	19
35	Integration of sputter-deposited multiferroic CoFe ₂ O ₄ ∕BiFeO ₃ nanocomposites on conductive La _{0.7} Sr _{0.3} MnO ₃ electrodes. Nanotechnology, 2019, 30, 105601.	1.3	13
36	Thin Film Self-Assembly of a Silicon-Containing Rod-Coil Liquid Crystalline Block Copolymer. Macromolecules, 2019, 52, 679-689.	2.2	26

#	ARTICLE	IF	CITATIONS
37	Monolithic integration of broadband optical isolators for polarization-diverse silicon photonics. <i>Optica</i> , 2019, 6, 473.	4.8	132
38	Domain wall structure and interactions in 50-nm wide Cobalt nanowires. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 215002.	1.3	2
39	Magnetic reversal and thermal stability of CoFeB perpendicular magnetic tunnel junction arrays patterned by block copolymer lithography. <i>Nanotechnology</i> , 2018, 29, 275302.	1.3	3
40	Thickness-Dependent Double-Epitaxial Growth in Strained SrTi _{0.7} Co _{0.3} O ₃ Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7469-7475.	4.0	8
41	Magnetization Reversal in Radially Distributed Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5124-5130.	1.5	16
42	Monolithic On-chip Magneto-optical Isolator with 3 dB Insertion Loss and 40 dB Isolation Ratio. <i>ACS Photonics</i> , 2018, 5, 5010-5016.	3.2	52
43	Thermal stability of L10-FePt nanodots patterned by self-assembled block copolymer lithography. <i>Nanotechnology</i> , 2018, 29, 465301.	1.3	5
44	Limits of Directed Self-Assembly in Block Copolymers. <i>Nano Letters</i> , 2018, 18, 3766-3772.	4.5	13
45	Double-Layer Morphologies from a Silicon-Containing ABA Triblock Copolymer. <i>ACS Nano</i> , 2018, 12, 6193-6202.	7.3	23
46	Templated Self-Assembly of a PS-Branch-PDMS Bottlebrush Copolymer. <i>Nano Letters</i> , 2018, 18, 4360-4369.	4.5	54
47	Control and local measurement of the spin chemical potential in a magnetic insulator. <i>Science</i> , 2017, 357, 195-198.	6.0	192