Ya-Sen Sun

List of Publications by Year
in descending order

41	750	623699 14	552766 26
papers	citations	h-index	g-index

41	41	41	983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Membranes with Highly Ordered Straight Nanopores by Selective Swelling of Fast Perpendicularly Aligned Block Copolymers. ACS Nano, 2013, 7, 9961-9974.	14.6	139
2	Crystalline Polymers in Nanoscale 1D Spatial Confinement. Macromolecules, 2006, 39, 5782-5788.	4.8	107
3	Tunable electrical memory characteristics by the morphology of self-assembled block copolymers:PCBM nanocomposite films. Soft Matter, 2012, 8, 526-535.	2.7	60
4	Polymeric Crystallization under Nanoscale 2D Spatial Confinement. Macromolecules, 2010, 43, 6237-6240.	4.8	49
5	Efficient catalysts for ringâ€opening polymerization of Îµâ€caprolactone and Î²â€butyrolactone: Synthesis and characterization of zinc complexes based on benzotriazole phenoxide ligands. Journal of Polymer Science Part A, 2011, 49, 4027-4036.	2.3	32
6	Probing Relief Terraces in Destabilized Thin Films of an Asymmetric Block Copolymer with Grazing-Incidence Small-Angle X-ray Scattering. Macromolecules, 2010, 43, 7250-7260.	4.8	21
7	Micellar Transitions in Solvent-Annealed Thin Films of an Amphiphilic Block Copolymer Controlled with Tunable Surface Fields. Langmuir, 2011, 27, 14545-14553.	3.5	21
8	Morphology and field-effect transistor characteristics of semicrystalline poly(3-hexylthiophene) and poly(stearyl acrylate) blend nanowires. Journal of Materials Chemistry, 2012, 22, 14682.	6.7	21
9	Carboxylic Acid-Directed Clustering and Dispersion of ZrO₂ Nanoparticles in Organic Solvents: A Study by Small-Angle X-ray/Neutron Scattering and NMR. Journal of Physical Chemistry C, 2011, 115, 11941-11950.	3.1	20
10	Kinetically controlled self-assembly of monolayered micelle films of P(S-b-4VP) on bare and PS-grafted substrates. Soft Matter, 2011, 7, 9140.	2.7	19
11	Hydrophilicâ€“Hydrophobic Nanohybrids of AuNP-Immobilized Two-Dimensional Nanomica Platelets as Flexible Substrates for High-Efficiency and High-Selectivity Surface-Enhanced Raman Scattering Microbe Detection. ACS Applied Bio Materials, 2022, 5, 1073-1083.	4.6	17
12	Tuning polymer-surface chemistries and interfacial interactions with UV irradiated polystyrene chains to control domain orientations in thin films of PS-b-PMMA. Soft Matter, 2016, 12, 2923-2931.	2.7	16
13	Effects of the Density of Chemical Cross-links and Physical Entanglements of Ultraviolet-Irradiated Polystyrene Chains on Domain Orientation and Spatial Order of Polystyrene-block-Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	16
14	Effects of Film Instability on Roughness Correlation and Nanodomain Ordering in Ultrathin Films of Asymmetric Block Copolymers. Macromolecules, 2010, 43, 5016-5023.	4.8	14
15	Film instability induced evolution of hierarchical structures in annealed ultrathin films of an asymmetric block copolymer on polar substrates. Polymer, 2011, 52, 1180-1190.	3.8	14
16	Monolayers of Diblock Copolymer Micelles by Spin-Coating fromo-Xylene on SiOx/Si Studied in Real and Reciprocal Space. Macromolecules, 2012, 45, 1963-1971.	4.8	14
17	Conversion from self-assembled block copolymer nanodomains to carbon nanostructures with well-defined morphology. RSC Advances, 2015, 5, 105774-105784.	3.6	13
18	Block-Copolymer-Templated Hierarchical Porous Carbon Nanostructures with Nitrogen-Rich Functional Groups for Molecular Sensing. ACS Applied Materials & Interfaces, 2017, 9, 31235-31244.	8.0	13

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19	Tailor-made dimensions of diblock copolymer truncated micelles on a solid by UV irradiation. Soft Matter, 2015, 11, 7119-7129.	2.7	12
20	Two-Dimensional Nitrogen-Enriched Carbon Nanosheets with Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2017, 121, 14795-14802.	3.1	11
21	Three-Dimensional Interconnected Network of Gold Nanostructures for Molecular Sensing via Surface-Enhanced Raman Scattering Spectroscopy. ACS Applied Nano Materials, 2020, 3, 7950-7962.	5.0	11
22	Surface-enhanced Raman scattering (SERS) spectroscopy on localized silver nanoparticle-decorated porous silicon substrate. Analyst, The, 2021, 146, 7645-7652.	3.5	11
23	Influence of Osmotic Pressure on Nanostructures in Thin Films of a Weakly-Segregated Block Copolymer and Its Blends with a Homopolymer. Polymers, 2021, 13, 2480.	4.5	8
24	Phase behavior in thin films of weakly segregated block copolymer/homopolymer blends. Soft Matter, 2021, 17, 9189-9197.	2.7	8
25	Surface Wrinkling on Polymer Films. Langmuir, 2022, 38, 3907-3916.	3.5	8
26	Hierarchically-responded assembly of block copolymer thin films with stimuli ofÂvaried solvent selectivity. Polymer, 2012, 53, 5972-5981.	3.8	7
27	Electrocatalytic activity of a nitrogen-enriched mesoporous carbon framework and its hybrids with metal nanoparticles fabricated through the pyrolysis of block copolymers. RSC Advances, 2015, 5, 105760-105773.	3.6	7
28	Tailoring Carbon Nanostructure with Diverse and Tunable Morphology by the Pyrolysis of Self-Assembled Lamellar Nanodomains of a Block Copolymer. Langmuir, 2017, 33, 2003-2010.	3.5	7
29	Hierarchically Porous Carbon Materials from Self-Assembled Block Copolymer/Dopamine Mixtures. Langmuir, 2020, 36, 11754-11764.	3.5	7
30	Live Templates of a Supramolecular Block Copolymer for the Synthesis of Ordered Nanostructured TiO₂ Films via Guest Exchange. ACS Applied Materials & Interfaces, 2016, 8, 33221-33229.	8.0	6
31	Effects of Graphitization and Bonding Configuration in Ironâ€“Nitrogen-Doped Carbon Nanostructures on Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2020, 3, 858-868.	5.0	6
32	Surface relief terraces and self-assembled nanostructures in thin block copolymer films with solvent annealing. Polymer, 2012, 53, 4827-4833.	3.8	5
33	Dispersity effects on phase behavior and structural evolution in ultrathin films of a deuterated polystyrene-block-poly(methyl methacrylate) diblock copolymer. Polymer, 2020, 210, 123027.	3.8	5
34	Direct Access to Bowl-Like Nanostructures with Block Copolymer Anisotropic Truncated Microspheres. Langmuir, 2021, 37, 636-645.	3.5	5
35	Distributions of Deuterated Polystyrene Chains in Perforated Layers of Blend Films of a Symmetric Polystyrene-block-poly(methyl methacrylate). Langmuir, 2021, 37, 13046-13058.	3.5	5
36	Examination of well ordered nanonetwork materials by real- and reciprocal-space imaging. IUCrJ, 2019, 6, 259-266.	2.2	4

#	Article	IF	Citations
37	Chain Length Effects of Added Homopolymers on the Phase Behavior in Blend Films of a Symmetric, Weakly Segregated Polystyrene-block-poly(methyl methacrylate). Macromolecules, 2022, 55, 2130-2147.	4.8	4
38	Oxygen Reduction Reaction of Block Copolymer Template-Directed Porous Carbon Catalysts. ACS Applied Energy Materials, 2022, 5, 897-914.	5.1	4
39	Structural Evolution of a Polystyrene-Block-Poly(Ethylene Oxide) Block Copolymer in Tetrahydrofuran/Water Cosolvents. Langmuir, 2022, 38, 5987-5995.	3.5	3
40	Film Instability of Amphiphilic Block Copolymer Thin Films Driven by Solvent Annealing and Drying. Macromolecular Chemistry and Physics, 2015, 216, 2020-2031.	2.2	0
41	Lateral Order and Self-Organized Morphology of Diblock Copolymer Micellar Films. Polymers, 2018, 10, 597.	4.5	0