

Stephan Roth

List of Publications by Year in descending order

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152
papers

6,496
citations

71061

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76872

74
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153
all docs

153
docs citations

153
times ranked

7686
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-wall recovery after irreversible deformation of wood. <i>Nature Materials</i> , 2003, 2, 810-813.	13.3	427
2	Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments. <i>Nature Communications</i> , 2014, 5, 4018.	5.8	402
3	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. <i>ACS Nano</i> , 2018, 12, 6378-6388.	7.3	359
4	P03, the microfocus and nanofocus X-ray scattering (MiNaXS) beamline of the PETRA III storage ring: the microfocus endstation. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 647-653.	1.0	253
5	A customizable software for fast reduction and analysis of large X-ray scattering data sets: applications of the new <i>DPDAK</i> package to small-angle X-ray scattering and grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014, 47, 1797-1803.	1.9	244
6	Solvent-Induced Morphology in Polymer-Based Systems for Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2011, 21, 3382-3391.	7.8	218
7	A Direct Evidence of Morphological Degradation on a Nanometer Scale in Polymer Solar Cells. <i>Advanced Materials</i> , 2013, 25, 6760-6764.	11.1	176
8	From atoms to layers: in situ gold cluster growth kinetics during sputter deposition. <i>Nanoscale</i> , 2013, 5, 5053.	2.8	148
9	Anisotropic particles align perpendicular to the flow direction in narrow microchannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6706-6711.	3.3	145
10	Structural evolution of tensile deformed high-density polyethylene at elevated temperatures: Scanning synchrotron small- and wide-angle X-ray scattering studies. <i>Polymer</i> , 2009, 50, 4101-4111.	1.8	133
11	Two Lamellar to Fibrillar Transitions in the Tensile Deformation of High-Density Polyethylene. <i>Macromolecules</i> , 2010, 43, 4727-4732.	2.2	123
12	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 19700-19707.	6.6	119
13	In Situ GISAXS Study of Gold Film Growth on Conducting Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 353-360.	4.0	116
14	Real-Time Monitoring of Morphology and Optical Properties during Sputter Deposition for Tailoring Metal-Polymer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13547-13556.	4.0	113
15	Silver substrates for surface enhanced Raman scattering: Correlation between nanostructure and Raman scattering enhancement. <i>Applied Physics Letters</i> , 2014, 104, 243107.	1.5	103
16	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. <i>Nature Energy</i> , 2021, 6, 977-986.	19.8	103
17	Self-assembled gradient nanoparticle-polymer multilayers investigated by an advanced characterization method: microbeam grazing incidence x-ray scattering. <i>Applied Physics Letters</i> , 2003, 82, 1935-1937.	1.5	86
18	Hierarchically Structured Titania Films Prepared by Polymer/Colloidal Templating. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2862-2869.	4.0	80

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19	Improved Power Conversion Efficiency of P3HT:PCBM Organic Solar Cells by Strong Spin-Orbit Coupling-Induced Delayed Fluorescence. <i>Advanced Energy Materials</i> , 2015, 5, 1401770.	10.2	78
20	Flow-assisted assembly of nanostructured protein microfibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1232-1237.	3.3	77
21	Balancing the pre-aggregation and crystallization kinetics enables high efficiency slot-die coated organic solar cells with reduced non-radiative recombination losses. <i>Energy and Environmental Science</i> , 2020, 13, 2467-2479.	15.6	69
22	Gyroid-Structured 3D ZnO Networks Made by Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2014, 24, 863-872.	7.8	68
23	The Effect of Fluorination in Manipulating the Nanomorphology in PTB7:PC ₇₁ BM Bulk Heterojunction Systems. <i>Advanced Energy Materials</i> , 2015, 5, 1401315.	10.2	68
24	Role of Sputter Deposition Rate in Tailoring Nanogranular Gold Structures on Polymer Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5629-5637.	4.0	64
25	Thin Films of Poly(<i>N</i> -isopropylacrylamide) End-Capped with <i>n</i> -Butyltrithiocarbonate. <i>Macromolecules</i> , 2008, 41, 3209-3218.	2.2	63
26	Patterned Diblock Co-Polymer Thin Films as Templates for Advanced Anisotropic Metal Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12470-12477.	4.0	63
27	Water-Induced Structural Rearrangements on the Nanoscale in Ultrathin Nanocellulose Films. <i>Macromolecules</i> , 2019, 52, 4721-4728.	2.2	58
28	Spray Deposition of Titania Films with Incorporated Crystalline Nanoparticles for All-Solid-State Dye-Sensitized Solar Cells Using P3HT. <i>Advanced Functional Materials</i> , 2016, 26, 1498-1506.	7.8	53
29	In situ GISAXS Investigation of Gold Sputtering onto a Polymer Template. <i>Langmuir</i> , 2008, 24, 4265-4272.	1.6	52
30	Cobalt Nanoparticles Growth on a Block Copolymer Thin Film: A Time-Resolved GISAXS Study. <i>Langmuir</i> , 2013, 29, 6331-6340.	1.6	52
31	Swelling and switching kinetics of gold coated end-capped poly(<i>N</i> -isopropylacrylamide) thin films. <i>Macromolecules</i> , 2010, 43, 2444-2452.	2.2	51
32	Mechanical and Morphological Properties of Lignin-Based Thermosets. <i>ACS Applied Polymer Materials</i> , 2020, 2, 668-676.	2.0	51
33	<i>In situ</i> observation of cluster formation during nanoparticle solution casting on a colloidal film. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 254208.	0.7	48
34	Structural evolution of melt-drawn transparent high-density polyethylene during heating and annealing: Synchrotron small-angle X-ray scattering study. <i>European Polymer Journal</i> , 2010, 46, 1866-1877.	2.6	47
35	Evaporation-Induced Block Copolymer Self-Assembly into Membranes Studied by <i>In Situ</i> Synchrotron SAXS. <i>Macromolecules</i> , 2015, 48, 1524-1530.	2.2	47
36	Morphological Degradation in Low Bandgap Polymer Solar Cells – An In Operando Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600712.	10.2	47

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37	Combinatorial investigation of the isolated nanoparticle to coalescent layer transition in a gradient sputtered gold nanoparticle layer on top of polystyrene. Applied Physics Letters, 2006, 88, 021910.	1.5	46
38	In Situ X-ray Study of the Structural Evolution of Gold Nano-Domains by Spray Deposition on Thin Conductive P3HT Films. Langmuir, 2013, 29, 2490-2497.	1.6	46
39	Magnetron-sputtered copper nanoparticles: lost in gas aggregation and found by <i>in situ</i> X-ray scattering. Nanoscale, 2018, 10, 18275-18281.	2.8	46
40	Growth and Morphology of Sputtered Aluminum Thin Films on P3HT Surfaces. ACS Applied Materials & Interfaces, 2011, 3, 1055-1062.	4.0	45
41	Exploring the Effects of Different Cross-Linkers on Lignin-Based Thermoset Properties and Morphologies. ACS Sustainable Chemistry and Engineering, 2021, 9, 1692-1702.	3.2	43
42	Fast Diffusion-Limited Lyotropic Phase Transitions Studied in Situ Using Continuous Flow Microfluidics/Microfocus-SAXS. Langmuir, 2014, 30, 12494-12502.	1.6	42
43	Use of intermediate focus for grazing incidence small and wide angle x-ray scattering experiments at the beamline P03 of PETRA III, DESY. Review of Scientific Instruments, 2014, 85, 043901.	0.6	40
44	Revealing Donor-Acceptor Interaction on the Printed Active Layer Morphology and the Formation Kinetics for Nonfullerene Organic Solar Cells at Ambient Conditions. Advanced Energy Materials, 2022, 12, .	10.2	40
45	Effect of Solvent Additives on the Morphology and Device Performance of Printed Nonfullerene Acceptor Based Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 42313-42321.	4.0	39
46	Array of Magnetic Nanoparticles via Particle Co-operated Self-Assembly in Block Copolymer Thin Film. Macromolecules, 2009, 42, 6202-6208.	2.2	38
47	Correlating Nanostructure, Optical and Electronic Properties of Nanogranular Silver Layers during Polymer-Template-Assisted Sputter Deposition. ACS Applied Materials & Interfaces, 2019, 11, 29416-29426.	4.0	37
48	Formation of Al Nanostructures on Alq3: An in Situ Grazing Incidence Small Angle X-ray Scattering Study during Radio Frequency Sputter Deposition. Journal of Physical Chemistry Letters, 2013, 4, 3170-3175.	2.1	36
49	Critical Strains for Lamellae Deformation and Cavitation during Uniaxial Stretching of Annealed Isotactic Polypropylene. Macromolecules, 2018, 51, 6276-6290.	2.2	35
50	Collapse transition in thin films of poly(methoxydiethylenglycol acrylate). Colloid and Polymer Science, 2011, 289, 569-581.	1.0	33
51	Investigating Polymer-Metal Interfaces by Grazing Incidence Small-Angle X-Ray Scattering from Gradients to Real-Time Studies. Nanomaterials, 2016, 6, 239.	1.9	31
52	Nano- and Microstructures of Magnetic Field-Guided Maghemite Nanoparticles in Diblock Copolymer Films. ACS Applied Materials & Interfaces, 2014, 6, 5244-5254.	4.0	30
53	Manipulating the Assembly of Spray-Deposited Nanocolloids: <i>In Situ</i> Study and Monolayer Film Preparation. Langmuir, 2016, 32, 4251-4258.	1.6	30
54	Composition-Morphology Correlation in PTB7-Th/PC ₇₁ BM Blend Films for Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 3125-3135.	4.0	30

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55	Nucleation and Growth of Magnetron-Sputtered Ag Nanoparticles as Witnessed by Time-Resolved Small Angle X-ray Scattering. Particle and Particle Systems Characterization, 2020, 37, 1900436.	1.2	30
56	Large-scale and local-scale structures in polymer-blend films: a grazing-incidence ultra-small-angle X-ray scattering and sub-microbeam grazing-incidence small-angle X-ray scattering investigation. Journal of Applied Crystallography, 2006, 40, s341-s345.	1.9	29
57	In-Situ Observation of Drying Process of a Latex Droplet by Synchrotron Small-Angle X-ray Scattering. Macromolecules, 2008, 41, 5073-5076.	2.2	29
58	Polymer-Template-Assisted Growth of Gold Nanowires Using a Novel Flow-Stream Technique. Langmuir, 2009, 25, 11815-11821.	1.6	29
59	Maghemite Nanoparticles on Supported Diblock Copolymer Nanostructures. Macromolecules, 2007, 40, 5075-5083.	2.2	28
60	Monitoring Structural Dynamics of In-situ Spray-Deposited Zinc Oxide Films for Application in Dye-Sensitized Solar Cells. ChemSusChem, 2014, 7, 2140-2145.	3.6	28
61	Functional Printing of Conductive Silver-Nanowire Photopolymer Composites. Scientific Reports, 2019, 9, 6465.	1.6	28
62	Correlated Roughness in Polymer Films Containing Maghemite Nanoparticles. Macromolecules, 2008, 41, 2186-2194.	2.2	27
63	Arrangement of Maghemite Nanoparticles via Wet Chemical Self-Assembly in PS- <i>b</i> -PNIPAM Diblock Copolymer Films. ACS Applied Materials & Interfaces, 2015, 7, 13080-13091.	4.0	26
64	A deep look into the spray coating process in real-time—the crucial role of x-rays. Journal of Physics Condensed Matter, 2016, 28, 403003.	0.7	26
65	Characterization of Highly Porous Polymeric Materials with Pore Diameters Larger than 100 nm by Mercury Porosimetry and X-ray Scattering Methods. Langmuir, 2008, 24, 5877-5887.	1.6	25
66	Development of the Morphology during Functional Stack Build-up of P3HT:PCBM Bulk Heterojunction Solar Cells with Inverted Geometry. ACS Applied Materials & Interfaces, 2015, 7, 602-610.	4.0	25
67	Sodium Dodecylbenzene Sulfonate Interface Modification of Methylammonium Lead Iodide for Surface Passivation of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 52643-52651.	4.0	25
68	Layered TiO ₂ :PVK nano-composite thin films for photovoltaic applications. European Physical Journal E, 2008, 26, 73-9.	0.7	24
69	Influence of Nanoparticle Surface Functionalization on the Thermal Stability of Colloidal Polystyrene Films. Langmuir, 2012, 28, 8230-8237.	1.6	24
70	Templating growth of gold nanostructures with a CdSe quantum dot array. Nanoscale, 2015, 7, 9703-9714.	2.8	24
71	Morphological properties of airbrush spray-deposited enzymatic cellulose thin films. Journal of Coatings Technology Research, 2018, 15, 759-769.	1.2	24
72	Real-time insight into nanostructure evolution during the rapid formation of ultra-thin gold layers on polymers. Nanoscale Horizons, 2021, 6, 132-138.	4.1	24

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73	Layer-by-Layer Spray-Coating of Cellulose Nanofibrils and Silver Nanoparticles for Hydrophilic Interfaces. ACS Applied Nano Materials, 2021, 4, 503-513.	2.4	24
74	Insights into Growth Kinetics of Colloidal Gold Nanoparticles: In Situ SAXS and UV-Vis Evaluation. Journal of Physical Chemistry C, 2021, 125, 1087-1095.	1.5	23
75	Comparative study of the nanomorphology of spray and spin coated PTB7 polymer: Fullerene films. Polymer Engineering and Science, 2016, 56, 889-894.	1.5	22
76	Dual-Layer Nanofilms via Mussel-Inspiration and Silication for Non-Iridescent Structural Color Spectrum in Flexible Displays. ACS Applied Nano Materials, 2019, 2, 4556-4566.	2.4	22
77	Core-Shell Nanoparticle Interface and Wetting Properties. Advanced Functional Materials, 2020, 30, 1907720.	7.8	22
78	Time-Resolved Orientation and Phase Analysis of Lead Halide Perovskite Film Annealing Probed by In Situ GIWAXS. Advanced Optical Materials, 2022, 10, .	3.6	22
79	Combining mixed titania morphologies into a complex assembly thin film by iterative block-copolymer-based sol-gel templating. Nanotechnology, 2012, 23, 145602.	1.3	21
80	Effect of chain architecture on the swelling and thermal response of star-shaped thermo-responsive (poly(methoxy diethylene glycol acrylate)-block-polystyrene) ₃ block copolymer films. Soft Matter, 2018, 14, 6582-6594.	1.2	21
81	Colloidal PbS quantum dot stacking kinetics during deposition via printing. Nanoscale Horizons, 2020, 5, 880-885.	4.1	21
82	Pattern formation of colloidal suspensions by dip-coating: An in situ grazing incidence X-ray scattering study. Physica Status Solidi - Rapid Research Letters, 2012, 6, 253-255.	1.2	20
83	Macroscale and Nanoscale Morphology Evolution during in Situ Spray Coating of Titania Films for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43724-43732.	4.0	20
84	In Situ Studies of Solvent Additive Effects on the Morphology Development during Printing of Bulk Heterojunction Films for Organic Solar Cells. Small Methods, 2020, 4, 2000418.	4.6	20
85	In Situ Grazing Incidence Small-Angle X-ray Scattering Investigation of Polystyrene Nanoparticle Spray Deposition onto Silicon. Langmuir, 2013, 29, 11260-11266.	1.6	19
86	Three-Dimensional Orientation of Nanofibrils in Axially Symmetric Systems Using Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2018, 122, 6889-6899.	1.5	19
87	Structural Changes of Gluten/Glycerol Plastics under Dry and Moist Conditions and during Tensile Tests. ACS Sustainable Chemistry and Engineering, 2016, 4, 3388-3397.	3.2	18
88	The Influence of CsBr on Crystal Orientation and Optoelectronic Properties of MAPbI ₃ -Based Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 2958-2967.	4.0	18
89	Spray-Coating Magnetic Thin Hybrid Films of PS- <i>b</i> -PNIPAM and Magnetite Nanoparticles. Advanced Functional Materials, 2019, 29, 1808427.	7.8	17
90	Percolation of rigid fractal carbon black aggregates. Journal of Chemical Physics, 2021, 155, 124902.	1.2	17

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91	<i>Operando</i> structure degradation study of PbS quantum dot solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 3420-3429.	15.6	17
92	Flow in Confined Geometry Introduced by Dewetting of Ultrathin Polystyrene Films. <i>Macromolecules</i> , 2006, 39, 5087-5094.	2.2	16
93	Following the Island Growth in Real Time: Ag Nanocluster Layer on Alq ₃ Thin Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4406-4413.	1.5	16
94	Readily available titania nanostructuring routines based on mobility and polarity controlled phase separation of an amphiphilic diblock copolymer. <i>Nanoscale</i> , 2018, 10, 5325-5334.	2.8	16
95	Global scattering functions: a tool for grazing incidence small angle X-ray scattering (GISAXS) data analysis of low correlated lateral structures. <i>EPJ Applied Physics</i> , 2010, 51, 10601.	0.3	14
96	Stripe-Like Pattern Formation in Airbrush-Spray Deposition of Colloidal Polymer Film. <i>Advanced Engineering Materials</i> , 2010, 12, 1235-1239.	1.6	14
97	Distortion of Ultrathin Photocleavable Block Copolymer Films during Photocleavage and Nanopore Formation. <i>Langmuir</i> , 2015, 31, 8947-8952.	1.6	14
98	Following <i>In Situ</i> the Evolution of Morphology and Optical Properties during Printing of Thin Films for Application in Non-Fullerene Acceptor Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40381-40392.	4.0	14
99	Flow fields control nanostructural organization in semiflexible networks. <i>Soft Matter</i> , 2020, 16, 5439-5449.	1.2	14
100	Selective Silver Nanocluster Metallization on Conjugated Diblock Copolymer Templates for Sensing and Photovoltaic Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 4245-4255.	2.4	14
101	Structural changes in gradient colloidal thin gold films deposited from aqueous solution. <i>Journal of Applied Crystallography</i> , 2007, 40, s346-s349.	1.9	13
102	Magnetic nanoparticle-containing soft-hard diblock copolymer films with high order. <i>Nanoscale</i> , 2018, 10, 11930-11941.	2.8	13
103	Surface Etching of Polymeric Semiconductor Films Improves Environmental Stability of Transistors. <i>Chemistry of Materials</i> , 2021, 33, 2673-2682.	3.2	13
104	Structure-Function Correlations in Sputter Deposited Gold/Fluorocarbon Multilayers for Tuning Optical Response. <i>Nanomaterials</i> , 2019, 9, 1249.	1.9	12
105	Morphology Phase Diagram of Slot-Die Printed TiO ₂ Films Based on Sol-Gel Synthesis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900558.	1.9	12
106	Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23628-23636.	5.2	12
107	Biopolymer-Templated Deposition of Ordered and Polymorph Titanium Dioxide Thin Films for Improved Surface-Enhanced Raman Scattering Sensitivity. <i>Advanced Functional Materials</i> , 2022, 32, 2108556.	7.8	12
108	Low-Temperature Sol-Gel Synthesis of Nanostructured Polymer/Titania Hybrid Films based on Custom-Made Poly(3-Alkoxy Thiophene). <i>ChemPhysChem</i> , 2013, 14, 597-602.	1.0	11

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109	Revealing structural evolution occurring from photo-initiated polymer network formation. Communications Chemistry, 2020, 3, .	2.0	11
110	Reorientation of π -conjugated molecules on few-layer MoS ₂ films. Physical Chemistry Chemical Physics, 2020, 22, 3097-3104.	1.3	11
111	Revealing the growth of copper on polystyrene-block-poly(ethylene oxide) diblock copolymer thin films with in situ GISAXS. Nanoscale, 2021, 13, 10555-10565.	2.8	11
112	Humidity-Induced Nanoscale Restructuring in PEDOT:PSS and Cellulose Nanofibrils Reinforced Biobased Organic Electronics. Advanced Electronic Materials, 2021, 7, 2100137.	2.6	11
113	Morphology Transformation Pathway of Block Copolymer-Directed Cooperative Self-Assembly of ZnO Hybrid Films Monitored In Situ during Slot-Die Coating. Advanced Functional Materials, 2021, 31, 2105644.	7.8	11
114	Template-Induced Growth of Sputter-Deposited Gold Nanoparticles on Ordered Porous TiO ₂ Thin Films for Surface-Enhanced Raman Scattering Sensors. ACS Applied Nano Materials, 2022, 5, 7492-7501.	2.4	11
115	Amphiphilic diblock copolymer-mediated structure control in nanoporous germanium-based thin films. Nanoscale, 2019, 11, 2048-2055.	2.8	10
116	Following in Situ the Deposition of Gold Electrodes on Low Band Gap Polymer Films. ACS Applied Materials & Interfaces, 2020, 12, 1132-1141.	4.0	10
117	In Situ Study of Order Formation in Mesoporous Titania Thin Films Templated by a Diblock Copolymer during Slot-Die Printing. ACS Applied Materials & Interfaces, 2020, 12, 57627-57637.	4.0	10
118	In Situ Study of Sputtering Nanometer-Thick Gold Films onto 100-nm-Thick Spiro-OMeTAD Films: Implications for Perovskite Solar Cells. ACS Applied Nano Materials, 2020, 3, 5987-5994.	2.4	10
119	Tailoring of uniaxial magnetic anisotropy in Permalloy thin films using nanorippled Si substrates. Journal of Physics Condensed Matter, 2020, 32, 185804.	0.7	10
120	Nanocellulose-Assisted Thermally Induced Growth of Silver Nanoparticles for Optical Applications. ACS Applied Materials & Interfaces, 2021, 13, 27696-27704.	4.0	10
121	State of the art of ultra-thin gold layers: formation fundamentals and applications. Nanoscale Advances, 2022, 4, 2533-2560.	2.2	10
122	Tuning of the Morphology and Optoelectronic Properties of ZnO/P3HT/P3HT- <i>b</i> -PEO Hybrid Films via Spray Deposition Method. ACS Applied Materials & Interfaces, 2018, 10, 20569-20577.	4.0	9
123	Key Factor Study for Amphiphilic Block Copolymer-Templated Mesoporous SnO ₂ Thin Film Synthesis: Influence of Solvent and Catalyst. Advanced Materials Interfaces, 2020, 7, 2001002.	1.9	9
124	Tailoring Ordered Mesoporous Titania Films via Introducing Germanium Nanocrystals for Enhanced Electron Transfer Photoanodes for Photovoltaic Applications. Advanced Functional Materials, 2021, 31, 2102105.	7.8	9
125	Correlating Optical Reflectance with the Topology of Aluminum Nanocluster Layers Growing on Partially Conjugated Diblock Copolymer Templates. ACS Applied Materials & Interfaces, 2021, 13, 56663-56673.	4.0	9
126	Colloidal silver nanoparticle gradient layer prepared by drying between two walls of different wettability. Journal of Physics Condensed Matter, 2009, 21, 264012.	0.7	8

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127	Printed Thin Diblock Copolymer Films with Dense Magnetic Nanostructure. ACS Applied Materials & Interfaces, 2019, 11, 21935-21945.	4.0	8
128	Structure Development of the Interphase between Drying Cellulose Materials Revealed by In Situ Grazing-Incidence Small-Angle X-ray Scattering. Biomacromolecules, 2021, 22, 4274-4283.	2.6	8
129	Modification of cellulose through physisorption of cationic bio-based nanolatexes “ comparing emulsion polymerization and RAFT-mediated polymerization-induced self-assembly. Green Chemistry, 2021, 23, 2113-2122.	4.6	8
130	Spray-Deposited Anisotropic Ferromagnetic Hybrid Polymer Films of PS- <i>b</i> -PMMA and Strontium Hexaferrite Magnetic Nanoplatelets. ACS Applied Materials & Interfaces, 2021, 13, 1592-1602.	4.0	8
131	In situ Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. ACS Applied Materials & Interfaces, 2020, 12, 46942-46952.	4.0	7
132	A quantitative approach to tune metal oxide network morphology based on grazing-incidence small-angle X-ray scattering investigations. Journal of Applied Crystallography, 2014, 47, 76-83.	1.9	7
133	Nanofibril Alignment during Assembly Revealed by an X-ray Scattering-Based Digital Twin. ACS Nano, 2022, , .	7.3	7
134	In Situ Monitoring of Scale Effects on Phase Selection and Plasmonic Shifts during the Growth of AgCu Alloy Nanostructures for Anticounterfeiting Applications. ACS Applied Nano Materials, 2022, 5, 3832-3842.	2.4	7
135	Comparison of UV Irradiation and Sintering on Mesoporous Spongelike ZnO Films Prepared from PS- <i>b</i> -P4VP Templated Sol-Gel Synthesis. ACS Applied Nano Materials, 2018, 1, 7139-7148.	2.4	6
136	Light-Induced and Oxygen-Mediated Degradation Processes in Photoactive Layers Based on PTB7. Advanced Photonics Research, 2020, 1, 2000047.	1.7	6
137	Multidimensional Morphology Control for PS- <i>b</i> -P4VP Templated Mesoporous Iron (III) Oxide Thin Films. Advanced Materials Interfaces, 2021, 8, 2100141.	1.9	6
138	Surface characterization and resistance changes of silver-nanowire networks upon atmospheric plasma treatment. Applied Surface Science, 2021, 550, 149362.	3.1	6
139	Hierarchical propagation of structural features in protein nanomaterials. Nanoscale, 2022, 14, 2502-2510.	2.8	6
140	Oblique angle deposited FeCo multilayered nanocolumnar structure: Magnetic anisotropy and its thermal stability in polycrystalline thin films. Applied Surface Science, 2022, 590, 153056.	3.1	6
141	Impact of Catalytic Additive on Spray Deposited and Nanoporous Titania Thin Films Observed via In Situ X-ray Scattering: Implications for Enhanced Photovoltaics. ACS Applied Nano Materials, 2018, 1, 4227-4235.	2.4	5
142	Interpreting SAXS data recorded on cellulose rich pulps. Cellulose, 2022, 29, 117-131.	2.4	5
143	Low-Temperature and Water-Based Biotemplating of Nanostructured Foam-Like Titania Films Using γ -Lactoglobulin. Advanced Functional Materials, 0, , 2113080.	7.8	5
144	Tailoring the Optical Properties of Sputter-Deposited Gold Nanostructures on Nanostructured Titanium Dioxide Templates Based on In Situ Grazing-Incidence Small-Angle X-ray Scattering Determined Growth Laws. ACS Applied Materials & Interfaces, 2021, 13, 14728-14740.	4.0	4

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145	In Situ GISAXS Observation and Large Area Homogeneity Study of Slot-Die Printed PS- <i>b</i> -P4VP and PS- <i>b</i> -P4VP/FeCl ₃ Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 3143-3155.	4.0	4
146	Solvent Tuning of the Active Layer Morphology of Non-Fullerene Based Organic Solar Cells. Solar Rrl, 2022, 6, .	3.1	4
147	In Situ Study of FePt Nanoparticles-Induced Morphology Development during Printing of Magnetic Hybrid Diblock Copolymer Films. Advanced Functional Materials, 2022, 32, 2107667.	7.8	3
148	Novel highly substituted thiophene-based n-type organic semiconductor: structural study, optical anisotropy and molecular control. CrystEngComm, 2020, 22, 7095-7103.	1.3	2
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