

Stephan Roth

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	In Situ Study of FePt Nanoparticles-Induced Morphology Development during Printing of Magnetic Hybrid Diblock Copolymer Films. <i>Advanced Functional Materials</i> , 2022, 32, 2107667.	7.8	3
2	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
3	Interpreting SAXS data recorded on cellulose rich pulps. <i>Cellulose</i> , 2022, 29, 117-131.	2.4	5
4	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. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3143-3155.	4.0	4
5	The Influence of CsBr on Crystal Orientation and Optoelectronic Properties of MAPbI ₃ -Based Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2958-2967.	4.0	18
6	Hierarchical propagation of structural features in protein nanomaterials. <i>Nanoscale</i> , 2022, 14, 2502-2510.	2.8	6
7	Nanofibril Alignment during Assembly Revealed by an X-ray Scattering-Based Digital Twin. <i>ACS Nano</i> , 2022, , .	7.3	7
8	Solvent Tuning of the Active Layer Morphology of Non-Fullerene Based Organic Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
9	State of the art of ultra-thin gold layers: formation fundamentals and applications. <i>Nanoscale Advances</i> , 2022, 4, 2533-2560.	2.2	10
10	Revealing Donor-Acceptor Interaction on the Printed Active Layer Morphology and the Formation Kinetics for Nonfullerene Organic Solar Cells at Ambient Conditions. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	40
11	In Situ Monitoring of Scale Effects on Phase Selection and Plasmonic Shifts during the Growth of AgCu Alloy Nanostructures for Anticounterfeiting Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 3832-3842.	2.4	7
12	Time-Resolved Orientation and Phase Analysis of Lead Halide Perovskite Film Annealing Probed by In Situ GIWAXS. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	22
13	Oblique angle deposited FeCo multilayered nanocolumnar structure: Magnetic anisotropy and its thermal stability in polycrystalline thin films. <i>Applied Surface Science</i> , 2022, 590, 153056.	3.1	6
14	Template-Induced Growth of Sputter-Deposited Gold Nanoparticles on Ordered Porous TiO ₂ Thin Films for Surface-Enhanced Raman Scattering Sensors. <i>ACS Applied Nano Materials</i> , 2022, 5, 7492-7501.	2.4	11
15	Effect of Solvent Vapor Annealing on Diblock Copolymer-Templated Mesoporous Si/Ge/C Thin Films: Implications for Li-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2022, 5, 7278-7287.	2.4	2
16	Sprayed Nanometer-Thick Hard-Magnetic Coatings with Strong Perpendicular Anisotropy for Data Storage Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 8741-8754.	2.4	1
17	Real-Time Observation of Temperature-Induced Surface Nanofaceting in M-Plane $\text{In}_2\text{Al}_2\text{O}_3$. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31373-31384.	4.0	2
18	Real-time insight into nanostructure evolution during the rapid formation of ultra-thin gold layers on polymers. <i>Nanoscale Horizons</i> , 2021, 6, 132-138.	4.1	24

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19	Insights into Growth Kinetics of Colloidal Gold Nanoparticles: In Situ SAXS and UV-Vis Evaluation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1087-1095.	1.5	23
20	Layer-by-Layer Spray-Coating of Cellulose Nanofibrils and Silver Nanoparticles for Hydrophilic Interfaces. <i>ACS Applied Nano Materials</i> , 2021, 4, 503-513.	2.4	24
21	Exploring the Effects of Different Cross-Linkers on Lignin-Based Thermoset Properties and Morphologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1692-1702.	3.2	43
22	Revealing the growth of copper on polystyrene-block-poly(ethylene oxide) diblock copolymer thin films with in situ GISAXS. <i>Nanoscale</i> , 2021, 13, 10555-10565.	2.8	11
23	Surface Etching of Polymeric Semiconductor Films Improves Environmental Stability of Transistors. <i>Chemistry of Materials</i> , 2021, 33, 2673-2682.	3.2	13
24	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. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14728-14740.	4.0	4
25	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
26	Humidity-Induced Nanoscale Restructuring in PEDOT:PSS and Cellulose Nanofibrils Reinforced Biobased Organic Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100137.	2.6	11
27	Tailoring Ordered Mesoporous Titania Films via Introducing Germanium Nanocrystals for Enhanced Electron Transfer Photoanodes for Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102105.	7.8	9
28	Nanocellulose-Assisted Thermally Induced Growth of Silver Nanoparticles for Optical Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27696-27704.	4.0	10
29	Multidimensional Morphology Control for PS-VP Templated Mesoporous Iron (III) Oxide Thin Films. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100141.	1.9	6
30	Surface characterization and resistance changes of silver-nanowire networks upon atmospheric plasma treatment. <i>Applied Surface Science</i> , 2021, 550, 149362.	3.1	6
31	Morphology Transformation Pathway of Block Copolymer-Directed Cooperative Self-Assembly of ZnO Hybrid Films Monitored In Situ during Slot-Die Coating. <i>Advanced Functional Materials</i> , 2021, 31, 2105644.	7.8	11
32	Structure Development of the Interphase between Drying Cellulose Materials Revealed by In Situ Grazing-Incidence Small-Angle X-ray Scattering. <i>Biomacromolecules</i> , 2021, 22, 4274-4283.	2.6	8
33	Percolation of rigid fractal carbon black aggregates. <i>Journal of Chemical Physics</i> , 2021, 155, 124902.	1.2	17
34	Real-time observation of nucleation and growth of Au on CdSe quantum dot templates. <i>Scientific Reports</i> , 2021, 11, 18777.	1.6	2
35	Operando structure degradation study of PbS quantum dot solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 3420-3429.	15.6	17
36	Modification of cellulose through physisorption of cationic bio-based nanolatexes – comparing emulsion polymerization and RAFT-mediated polymerization-induced self-assembly. <i>Green Chemistry</i> , 2021, 23, 2113-2122.	4.6	8

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37	Degradation mechanisms of perovskite solar cells under vacuum and one atmosphere of nitrogen. <i>Nature Energy</i> , 2021, 6, 977-986.	19.8	103
38	Spray-Deposited Anisotropic Ferromagnetic Hybrid Polymer Films of PS- <i>b</i> -PMMA and Strontium Hexaferrite Magnetic Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1592-1602.	4.0	8
39	Correlating Optical Reflectance with the Topology of Aluminum Nanocluster Layers Growing on Partially Conjugated Diblock Copolymer Templates. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56663-56673.	4.0	9
40	Nucleation and Growth of Magnetron-Sputtered Ag Nanoparticles as Witnessed by Time-Resolved Small Angle X-Ray Scattering. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900436.	1.2	30
41	Following in Situ the Deposition of Gold Electrodes on Low Band Gap Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1132-1141.	4.0	10
42	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
43	Novel highly substituted thiophene-based n-type organic semiconductor: structural study, optical anisotropy and molecular control. <i>CrystEngComm</i> , 2020, 22, 7095-7103.	1.3	2
44	Key Factor Study for Amphiphilic Block Copolymer-Templated Mesoporous SnO ₂ Thin Film Synthesis: Influence of Solvent and Catalyst. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001002.	1.9	9
45	Revealing structural evolution occurring from photo-initiated polymer network formation. <i>Communications Chemistry</i> , 2020, 3, .	2.0	11
46	Sodium Dodecylbenzene Sulfonate Interface Modification of Methylammonium Lead Iodide for Surface Passivation of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52643-52651.	4.0	25
47	In Situ Studies of Solvent Additive Effects on the Morphology Development during Printing of Bulk Heterojunction Films for Organic Solar Cells. <i>Small Methods</i> , 2020, 4, 2000418.	4.6	20
48	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
49	In situ Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46942-46952.	4.0	7
50	Light-Induced and Oxygen-Mediated Degradation Processes in Photoactive Layers Based on PTB7 th . <i>Advanced Photonics Research</i> , 2020, 1, 2000047.	1.7	6
51	In Situ Study of Order Formation in Mesoporous Titania Thin Films Templated by a Diblock Copolymer during Slot-Die Printing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57627-57637.	4.0	10
52	In Situ Study of Sputtering Nanometer-Thick Gold Films onto 100-nm-Thick Spiro-OMeTAD Films: Implications for Perovskite Solar Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 5987-5994.	2.4	10
53	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
54	Flow fields control nanostructural organization in semiflexible networks. <i>Soft Matter</i> , 2020, 16, 5439-5449.	1.2	14

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55	Tailoring of uniaxial magnetic anisotropy in Permalloy thin films using nanorippled Si substrates. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 185804.	0.7	10
56	Colloidal PbS quantum dot stacking kinetics during deposition <i>via</i> printing. <i>Nanoscale Horizons</i> , 2020, 5, 880-885.	4.1	21
57	Core-Shell Nanoparticle Interface and Wetting Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1907720.	7.8	22
58	Reorientation of Γ -conjugated molecules on few-layer MoS ₂ films. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3097-3104.	1.3	11
59	Mechanical and Morphological Properties of Lignin-Based Thermosets. <i>ACS Applied Polymer Materials</i> , 2020, 2, 668-676.	2.0	51
60	Correlating Nanostructure, Optical and Electronic Properties of Nanogranular Silver Layers during Polymer-Template-Assisted Sputter Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29416-29426.	4.0	37
61	Effect of Solvent Additives on the Morphology and Device Performance of Printed Nonfullerene Acceptor Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42313-42321.	4.0	39
62	Structure-Function Correlations in Sputter Deposited Gold/Fluorocarbon Multilayers for Tuning Optical Response. <i>Nanomaterials</i> , 2019, 9, 1249.	1.9	12
63	Amphiphilic diblock copolymer-mediated structure control in nanoporous germanium-based thin films. <i>Nanoscale</i> , 2019, 11, 2048-2055.	2.8	10
64	Dual-Layer Nanofilms via Mussel-Inspiration and Silication for Non-Iridescent Structural Color Spectrum in Flexible Displays. <i>ACS Applied Nano Materials</i> , 2019, 2, 4556-4566.	2.4	22
65	Printed Thin Diblock Copolymer Films with Dense Magnetic Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21935-21945.	4.0	8
66	Water-Induced Structural Rearrangements on the Nanoscale in Ultrathin Nanocellulose Films. <i>Macromolecules</i> , 2019, 52, 4721-4728.	2.2	58
67	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
68	Functional Printing of Conductive Silver-Nanowire Photopolymer Composites. <i>Scientific Reports</i> , 2019, 9, 6465.	1.6	28
69	Spray-Coating Magnetic Thin Hybrid Films of PS- <i>b</i> -PNIPAM and Magnetite Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1808427.	7.8	17
70	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
71	Composition-Morphology Correlation in PTB7-Th/PC ₇₁ BM Blend Films for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3125-3135.	4.0	30
72	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

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73	Three-Dimensional Orientation of Nanofibrils in Axially Symmetric Systems Using Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6889-6899.	1.5	19
74	Comparison of UV Irradiation and Sintering on Mesoporous Spongelike ZnO Films Prepared from PS- <i>b</i> -P4VP Templated Sol-Gel Synthesis. <i>ACS Applied Nano Materials</i> , 2018, 1, 7139-7148.	2.4	6
75	Morphological properties of airbrush spray-deposited enzymatic cellulose thin films. <i>Journal of Coatings Technology Research</i> , 2018, 15, 759-769.	1.2	24
76	Magnetron-sputtered copper nanoparticles: lost in gas aggregation and found by <i>in situ</i> X-ray scattering. <i>Nanoscale</i> , 2018, 10, 18275-18281.	2.8	46
77	Tuning of the Morphology and Optoelectronic Properties of ZnO/P3HT/P3HT- <i>b</i> -PEO Hybrid Films via Spray Deposition Method. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20569-20577.	4.0	9
78	Magnetic nanoparticle-containing soft-hard diblock copolymer films with high order. <i>Nanoscale</i> , 2018, 10, 11930-11941.	2.8	13
79	Effect of chain architecture on the swelling and thermal response of star-shaped thermo-responsive (poly(methoxy diethylene glycol acrylate)- <i>b</i> -polystyrene) ₃ block copolymer films. <i>Soft Matter</i> , 2018, 14, 6582-6594.	1.2	21
80	Impact of Catalytic Additive on Spray Deposited and Nanoporous Titania Thin Films Observed via <i>in Situ</i> X-ray Scattering: Implications for Enhanced Photovoltaics. <i>ACS Applied Nano Materials</i> , 2018, 1, 4227-4235.	2.4	5
81	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. <i>ACS Nano</i> , 2018, 12, 6378-6388.	7.3	359
82	Critical Strains for Lamellae Deformation and Cavitation during Uniaxial Stretching of Annealed Isotactic Polypropylene. <i>Macromolecules</i> , 2018, 51, 6276-6290.	2.2	35
83	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
84	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
85	Macroscale and Nanoscale Morphology Evolution during <i>in Situ</i> Spray Coating of Titania Films for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43724-43732.	4.0	20
86	Investigating Polymer-Metal Interfaces by Grazing Incidence Small-Angle X-Ray Scattering from Gradients to Real-Time Studies. <i>Nanomaterials</i> , 2016, 6, 239.	1.9	31
87	Comparative study of the nanomorphology of spray and spin coated PTB7 polymer: Fullerene films. <i>Polymer Engineering and Science</i> , 2016, 56, 889-894.	1.5	22
88	Structural Changes of Gluten/Glycerol Plastics under Dry and Moist Conditions and during Tensile Tests. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3388-3397.	3.2	18
89	Manipulating the Assembly of Spray-Deposited Nanocolloids: <i>In Situ</i> Study and Monolayer Film Preparation. <i>Langmuir</i> , 2016, 32, 4251-4258.	1.6	30
90	A deep look into the spray coating process in real-time—the crucial role of x-rays. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 403003.	0.7	26

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91	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
92	Morphological Degradation in Low Bandgap Polymer Solar Cells – An In Operando Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600712.	10.2	47
93	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
94	Distortion of Ultrathin Photocleavable Block Copolymer Films during Photocleavage and Nanopore Formation. <i>Langmuir</i> , 2015, 31, 8947-8952.	1.6	14
95	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
96	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
97	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
98	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
99	Arrangement of Maghemite Nanoparticles via Wet Chemical Self-Assembly in PS- <i>b</i> -PNIPAM Diblock Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13080-13091.	4.0	26
100	Templating growth of gold nanostructures with a CdSe quantum dot array. <i>Nanoscale</i> , 2015, 7, 9703-9714.	2.8	24
101	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
102	Development of the Morphology during Functional Stack Build-up of P3HT:PCBM Bulk Heterojunction Solar Cells with Inverted Geometry. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 602-610.	4.0	25
103	Gyroid-Structured 3D ZnO Networks Made by Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2014, 24, 863-872.	7.8	68
104	Use of intermediate focus for grazing incidence small and wide angle x-ray scattering experiments at the beamline P03 of PETRA III, DESY. <i>Review of Scientific Instruments</i> , 2014, 85, 043901.	0.6	40
105	Fast Diffusion-Limited Lyotropic Phase Transitions Studied <i>In Situ</i> Using Continuous Flow Microfluidics/Microfocus-SAXS. <i>Langmuir</i> , 2014, 30, 12494-12502.	1.6	42
106	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
107	Nano- and Microstructures of Magnetic Field-Guided Maghemite Nanoparticles in Diblock Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5244-5254.	4.0	30
108	Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments. <i>Nature Communications</i> , 2014, 5, 4018.	5.8	402

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109	Monitoring Structural Dynamics of In-situ Spray-Deposited Zinc Oxide Films for Application in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 2140-2145.	3.6	28
110	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
111	A quantitative approach to tune metal oxide network morphology based on grazing-incidence small-angle X-ray scattering investigations. <i>Journal of Applied Crystallography</i> , 2014, 47, 76-83.	1.9	7
112	In Situ Grazing Incidence Small-Angle X-ray Scattering Investigation of Polystyrene Nanoparticle Spray Deposition onto Silicon. <i>Langmuir</i> , 2013, 29, 11260-11266.	1.6	19
113	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
114	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
115	From atoms to layers: in situ gold cluster growth kinetics during sputter deposition. <i>Nanoscale</i> , 2013, 5, 5053.	2.8	148
116	Cobalt Nanoparticles Growth on a Block Copolymer Thin Film: A Time-Resolved GISAXS Study. <i>Langmuir</i> , 2013, 29, 6331-6340.	1.6	52
117	Formation of Al Nanostructures on Alq ₃ : An in Situ Grazing Incidence Small Angle X-ray Scattering Study during Radio Frequency Sputter Deposition. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3170-3175.	2.1	36
118	In Situ X-ray Study of the Structural Evolution of Gold Nano-Domains by Spray Deposition on Thin Conductive P3HT Films. <i>Langmuir</i> , 2013, 29, 2490-2497.	1.6	46
119	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
120	Combining mixed titania morphologies into a complex assembly thin film by iterative block-copolymer-based sol-gel templating. <i>Nanotechnology</i> , 2012, 23, 145602.	1.3	21
121	Pattern formation of colloidal suspensions by dip-coating: An in situ grazing incidence X-ray scattering study. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 253-255.	1.2	20
122	Influence of Nanoparticle Surface Functionalization on the Thermal Stability of Colloidal Polystyrene Films. <i>Langmuir</i> , 2012, 28, 8230-8237.	1.6	24
123	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
124	Growth and Morphology of Sputtered Aluminum Thin Films on P3HT Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1055-1062.	4.0	45
125	Collapse transition in thin films of poly(methoxydiethylenglycol acrylate). <i>Colloid and Polymer Science</i> , 2011, 289, 569-581.	1.0	33
126	Solvent-Induced Morphology in Polymer-Based Systems for Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2011, 21, 3382-3391.	7.8	218

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127	<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
128	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
129	Stripe-Like Pattern Formation in Airbrush-Spray Deposition of Colloidal Polymer Film. <i>Advanced Engineering Materials</i> , 2010, 12, 1235-1239.	1.6	14
130	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
131	Two Lamellar to Fibrillar Transitions in the Tensile Deformation of High-Density Polyethylene. <i>Macromolecules</i> , 2010, 43, 4727-4732.	2.2	123
132	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
133	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
134	Polymer-Template-Assisted Growth of Gold Nanowires Using a Novel Flow-Stream Technique. <i>Langmuir</i> , 2009, 25, 11815-11821.	1.6	29
135	Colloidal silver nanoparticle gradient layer prepared by drying between two walls of different wettability. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 264012.	0.7	8
136	Hierarchically Structured Titania Films Prepared by Polymer/Colloidal Templating. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2862-2869.	4.0	80
137	<i>In Situ</i> GISAXS Study of Gold Film Growth on Conducting Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 353-360.	4.0	116
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