

Eric Verploegen

List of Publications by Year in descending order

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papers

2,986
citations

304743

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docs citations

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times ranked

5186
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning charge transport in solution-sheared organic semiconductors using lattice strain. <i>Nature</i> , 2011, 480, 504-508.	27.8	981
2	Effects of Thermal Annealing Upon the Morphology of Polymer–Fullerene Blends. <i>Advanced Functional Materials</i> , 2010, 20, 3519-3529.	14.9	539
3	Exponential Growth of LBL Films with Incorporated Inorganic Sheets. <i>Nano Letters</i> , 2008, 8, 1762-1770.	9.1	210
4	Manipulating the Morphology of P3HT–PCBM Bulk Heterojunction Blends with Solvent Vapor Annealing. <i>Chemistry of Materials</i> , 2012, 24, 3923-3931.	6.7	171
5	Extended Release Antibacterial Layer-by-Layer Films Incorporating Linear-Dendritic Block Copolymer Micelles. <i>Chemistry of Materials</i> , 2007, 19, 5524-5530.	6.7	126
6	Thiophene-rich fused-aromatic thienopyrazine acceptor for donor–acceptor low band-gap polymers for OTFT and polymer solar cell applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 5823.	6.7	84
7	Effects of Odd–Even Side Chain Length of Alkyl-Substituted Diphenylbithiophenes on First Monolayer Thin Film Packing Structure. <i>Journal of the American Chemical Society</i> , 2013, 135, 11006-11014.	13.7	81
8	Quantitative Characterization of the Morphology of Multiwall Carbon Nanotube Films by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5859-5865.	3.1	75
9	Molecular design for improved photovoltaic efficiency: band gap and absorption coefficient engineering. <i>Journal of Materials Chemistry</i> , 2009, 19, 7195.	6.7	72
10	The phase behavior of a polymer–fullerene bulk heterojunction system that contains bimolecular crystals. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 499-503.	2.1	71
11	3,4-Disubstituted Polyalkylthiophenes for High-Performance Thin-Film Transistors and Photovoltaics. <i>Journal of the American Chemical Society</i> , 2011, 133, 16722-16725.	13.7	67
12	Diffusional Self-Organization in Exponential Layer-by-Layer Films with Micro- and Nanoscale Periodicity. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7073-7077.	13.8	54
13	Automated spin-assisted layer-by-layer assembly of nanocomposites. <i>Review of Scientific Instruments</i> , 2009, 80, 023903.	1.3	50
14	Controlling the Morphology of Side Chain Liquid Crystalline Block Copolymer Thin Films through Variations in Liquid Crystalline Content. <i>Nano Letters</i> , 2008, 8, 3434-3440.	9.1	46
15	Observation of Transverse Cylinder Morphology in Side Chain Liquid Crystalline Block Copolymers. <i>Macromolecules</i> , 2007, 40, 777-780.	4.8	41
16	Reversible Switching of the Shear Modulus of Photoresponsive Liquid-Crystalline Polymers. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3494-3498.	13.8	38
17	High-Speed <i>in Situ</i> X-ray Scattering of Carbon Nanotube Film Nucleation and Self-Organization. <i>ACS Nano</i> , 2012, 6, 5091-5101.	14.6	38
18	Synthesis and Characterization of ABA Triblock Copolymers Containing Smectic C* Liquid Crystal Side Chains via Ring-Opening Metathesis Polymerization Using a Bimetallic Molybdenum Initiator. <i>Macromolecules</i> , 2006, 39, 3993-4000.	4.8	32

#	ARTICLE	IF	CITATIONS
19	Side chain engineering of fused aromatic thienopyrazine based low band-gap polymers for enhanced charge carrier mobility. <i>Journal of Materials Chemistry</i> , 2011, 21, 1537-1543.	6.7	30
20	Characterizing the Morphologies of Mechanically Manipulated Multiwall Carbon Nanotube Films by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17933-17940.	3.1	29
21	Synthesis of ABA Triblock Copolymers via Ring Opening Metathesis Polymerization Using a Bimetallic Initiator: A Influence of a Flexible Spacer in the Side Chain Liquid Crystalline Block. <i>Macromolecules</i> , 2006, 39, 8241-8249.	4.8	25
22	Influence of variations in liquid-crystalline content upon the self-assembly behavior of siloxane-based block copolymers. <i>Soft Matter</i> , 2008, 4, 1279.	2.7	25
23	Non-destructive characterization of structural hierarchy within aligned carbon nanotube assemblies. <i>Journal of Applied Physics</i> , 2011, 109, 094316.	2.5	19
24	Effects of Thermal Annealing Upon the Nanomorphology of Poly(3-hexylselenophene)-PCBM Blends. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1454-1460.	3.9	17
25	Impact of regioregularity on thin-film transistor and photovoltaic cell performances of pentacene-containing polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 4356.	6.7	14
26	Thermotropic Phase Transition of Benzodithiophene Copolymer Thin Films and Its Impact on Electrical and Photovoltaic Characteristics. <i>Chemistry of Materials</i> , 2015, 27, 1223-1232.	6.7	12
27	Tuning Mechanical Properties of Block Copolymer/Aluminosilicate Hybrid Materials. <i>Macromolecular Rapid Communications</i> , 2007, 28, 572-578.	3.9	9
28	Morphology of side chain liquid crystalline block copolymer thin films and effects of thermal annealing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 3263-3266.	2.1	9
29	Organic Solar Cells: How X-ray Scattering Has Improved Our Understanding of Morphology. <i>Synchrotron Radiation News</i> , 2010, 23, 16-21.	0.8	7
30	Side Chain Liquid Crystalline Thermoplastic Elastomers for Actuator and Electromechanical Applications. <i>Materials Research Society Symposia Proceedings</i> , 2005, 889, 1.	0.1	0