Stefan Kowarik

List of Publications by Year in descending order

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Version: 2024-02-01

218677 214800 3,332 51 26 47 h-index citations g-index papers 51 51 51 4966 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Step-by-Step Route for the Synthesis of Metalâ 'Organic Frameworks. Journal of the American Chemical Society, 2007, 129, 15118-15119.	13.7	811
2	Biomolecular Recognition Based on Single Gold Nanoparticle Light Scattering. Nano Letters, 2003, 3, 935-938.	9.1	711
3	Real-Time Observation of Structural and Orientational Transitions during Growth of Organic Thin Films. Physical Review Letters, 2006, 96, 125504.	7.8	199
4	Tuning the Work Function of Polar Zinc Oxide Surfaces using Modified Phosphonic Acid Selfâ€Assembled Monolayers. Advanced Functional Materials, 2014, 24, 7014-7024.	14.9	160
5	Impact of White Light Illumination on the Electronic and Chemical Structures of Mixed Halide and Single Crystal Perovskites. Advanced Optical Materials, 2017, 5, 1700139.	7.3	136
6	Optical properties of pentacene and perfluoropentacene thin films. Journal of Chemical Physics, 2007, 127, 194705.	3.0	131
7	Organic molecular beam deposition: fundamentals, growth dynamics, and (i) in situ (i) studies. Journal of Physics Condensed Matter, 2008, 20, 184005.	1.8	97
8	Molecular Reorganization in Organic Field-Effect Transistors and Its Effect on Two-Dimensional Charge Transport Pathways. ACS Nano, 2013, 7, 1257-1264.	14.6	79
9	Structure, morphology, and growth dynamics of perfluoroâ€pentacene thin films. Physica Status Solidi - Rapid Research Letters, 2008, 2, 120-122.	2.4	67
10	Fiber Optic Train Monitoring with Distributed Acoustic Sensing: Conventional and Neural Network Data Analysis. Sensors, 2020, 20, 450.	3.8	62
11	Band-offset engineering in organic/inorganic semiconductor hybrid structures. Physical Chemistry Chemical Physics, 2010, 12, 11642.	2.8	57
12	Energy-dispersive X-ray reflectivity and GID for real-time growth studies of pentacene thin films. Thin Solid Films, 2007, 515, 5606-5610.	1.8	53
13	Formation of Carboxy- and Amide-Terminated Alkyl Monolayers on Silicon(111) Investigated by ATR-FTIR, XPS, and X-ray Scattering: Construction of Photoswitchable Surfaces. Langmuir, 2013, 29, 11758-11769.	3.5	48
14	Anomalous roughness evolution of rubrene thin films observed in real time during growth. Physical Chemistry Chemical Physics, 2006, 8, 1834.	2.8	45
15	Light-Controlled "Molecular Zippers―Based on Azobenzene Main Chain Polymers. Macromolecules, 2015, 48, 1531-1537.	4.8	43
16	Real-time X-ray diffraction measurements of structural dynamics and polymorphism in diindenoperylene growth. Applied Physics A: Materials Science and Processing, 2009, 95, 233-239.	2.3	42
17	Real-time dynamic strain sensing in optical fibers using artificial neural networks. Optics Express, 2019, 27, 7405.	3.4	35
18	Crystal Grain Orientation in Organic Homo- and Heteroepitaxy of Pentacene and Perfluoropentacene Studied with X-ray Spectromicroscopy. Journal of Physical Chemistry C, 2010, 114, 13061-13067.	3.1	34

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19	Cooperative Switching in Nanofibers of Azobenzene Oligomers. Scientific Reports, 2016, 6, 25605.	3.3	31
20	Light Controls Polymorphism in Thin Films of Sexithiophene. Crystal Growth and Design, 2015, 15, 1319-1324.	3.0	30
21	Coverage dependent adsorption dynamics in hyperthermal organic thin film growth. Journal of Chemical Physics, 2009, 130, 124701.	3.0	29
22	Thin film growth studies using time-resolved x-ray scattering. Journal of Physics Condensed Matter, 2017, 29, 043003.	1.8	29
23	Fast fitting of reflectivity data of growing thin films using neural networks. Journal of Applied Crystallography, 2019, 52, 1342-1347.	4.5	29
24	Artificial neural networks for quantitative online NMR spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 4447-4459.	3.7	27
25	Near-Field Surface Plasmon Excitation on Structured Gold Films. Nano Letters, 2003, 3, 3-7.	9.1	26
26	<i>Inâ€situ</i> Xâ€ray scattering studies of OFET interfaces. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 461-474.	1.8	26
27	Lattice Matching as the Determining Factor for Molecular Tilt and Multilayer Growth Mode of the Nanographene Hexa- <i>peri</i> -hexabenzocoronene. ACS Applied Materials & Diterfaces, 2014, 6, 21484-21493.	8.0	26
28	Phase separation and electrical switching between two isosymmetric multiferroic phases in tensile strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>BiFeO</mml:mtext><mml:mn .<="" 2014,="" 89,="" b,="" films.="" physical="" review="" td=""><td>>3<td>mn \$ 26/mml:ms</td></td></mml:mn></mml:msub></mml:math>	>3 <td>mn \$ 26/mml:ms</td>	mn \$ 26/mml:ms
29	Carbazole–Phenylbenzotriazole Copolymers as Absorber Material in Organic Solar Cells. Macromolecules, 2013, 46, 3870-3878.	4.8	25
30	Dewetting of an Organic Semiconductor Thin Film Observed in Realâ€time. Advanced Engineering Materials, 2009, 11, 291-294.	3.5	24
31	Observing hydrogen silsesquioxane crossâ€linking with broadband CARS. Journal of Raman Spectroscopy, 2009, 40, 770-774.	2.5	23
32	Molecular structure of the substrate-induced thin-film phase of tetracene. Journal of Chemical Physics, 2018, 149, 144701.	3.0	23
33	Diffusion and nucleation in multilayer growth of PTCDI-C8 studied with <i>in situ</i> X-ray growth oscillations and real-time small angle X-ray scattering. Journal of Chemical Physics, 2017, 146, 052803.	3.0	19
34	Thin-Film Texture and Optical Properties of Donor/Acceptor Complexes. Diindenoperylene/F6TCNNQ vs Alpha-Sexithiophene/F6TCNNQ. Journal of Physical Chemistry C, 2018, 122, 18705-18714.	3.1	17
35	Strain-gradient-induced magnetic anisotropy in straight-stripe mixed-phase bismuth ferrites: Insight into flexomagnetism. Physical Review B, 2017, 96, .	3.2	14
36	Neural network analysis of neutron and x-ray reflectivity data: pathological cases, performance and perspectives. Machine Learning: Science and Technology, 2021, 2, 045003.	5.0	13

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37	Comparative study of the growth of sputtered aluminum oxide films on organic and inorganic substrates. Thin Solid Films, 2008, 516, 6377-6381.	1.8	12
38	Polymorphism in \hat{l}_{\pm} -sexithiophene crystals: relative stability and transition path. Physical Chemistry Chemical Physics, 2016, 18, 14603-14609.	2.8	11
39	Thermally driven smoothening of molecular thin films: Structural transitions in n-alkane layers studied in real-time. Journal of Chemical Physics, 2015, 143, 164707.	3.0	9
40	Structure of <i>p</i> -Sexiphenyl Nanocrystallites in ZnO Revealed by High-Resolution Transmission Electron Microscopy. Crystal Growth and Design, 2016, 16, 2789-2794.	3.0	9
41	Machine learning predictions of surface migration barriers in nucleation and non-equilibrium growth. Communications Materials, 2021, 2, .	6.9	8
42	Miniaturized Bragg-grating couplers for SiN-photonic crystal slabs. Optics Express, 2015, 23, 9803.	3.4	7
43	Direct Photoalignment and Optical Patterning of Molecular Thin Films. Advanced Materials, 2017, 29, 1604382.	21.0	7
44	Quantifying reaction spread and x-ray exposure sensitivity in hydrogen silsesquioxane latent resist patterns with x-ray spectromicroscopy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1304-1313.	1.2	6
45	Thermallyâ€activated postâ€growth dewetting of fullerene C ₆₀ on mica. Physica Status Solidi - Rapid Research Letters, 2015, 9, 646-651.	2.4	6
46	Spiroâ€Bridged Ladderâ€Type Oligo(<i>para</i> â€phenylene)s: Fine Tuning Solid State Structure and Optical Properties. Advanced Functional Materials, 2017, 27, 1704077.	14.9	5
47	Artificial neural networks and data fusion enable concentration predictions for inline process analytics., 2022, 1, 405-412.		3
48	Train monitoring using distributed fiber optic acoustic sensing. , 2021, , .		1
49	Artificial Intelligence for Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy Using a Novel Data Augmentation Method. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 87-98.	4.6	1
50	In Situ X-Ray Scattering Studies of OFET Interfaces. , 0, , 161-187.		0
51	Artificial Intelligence for Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy. , 2021, , .		O