Martin Oehzelt

List of Publications by Year
in descending order

69	4,947	117625	98798
papers	citations	34 h-index	67 g-index

70	70	70	6290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen-Doped Graphene: Efficient Growth, Structure, and Electronic Properties. Nano Letters, 2011, 11, 5401-5407.	9.1	685
2	Molecular Electrical Doping of Organic Semiconductors: Fundamental Mechanisms and Emerging Dopant Design Rules. Accounts of Chemical Research, 2016, 49, 370-378.	15.6	549
3	Organic semiconductor density of states controls the energy level alignment at electrode interfaces. Nature Communications, 2014, 5, 4174.	12.8	322
4	Charge-transfer crystallites as molecular electrical dopants. Nature Communications, 2015, 6, 8560.	12.8	317
5	Moderate doping leads to high performance of semiconductor/insulator polymer blend transistors. Nature Communications, 2013, 4, 1588.	12.8	240
6	Doping of Organic Semiconductors: Impact of Dopant Strength and Electronic Coupling. Angewandte Chemie - International Edition, 2013, 52, 7751-7755.	13.8	186
7	Intermolecular Hybridization Governs Molecular Electrical Doping. Physical Review Letters, 2012, 108, 035502.	7.8	178
8	Intra- and Intermolecular Band Dispersion in an Organic Crystal. Science, 2007, 317, 351-355.	12.6	174
9	Tuning the Ionization Energy of Organic Semiconductor Films: The Role of Intramolecular Polar Bonds. Journal of the American Chemical Society, 2008, 130, 12870-12871.	13.7	152
10	Epitaxial Growth of Ï€-Stacked Perfluoropentacene on Graphene-Coated Quartz. ACS Nano, 2012, 6, 10874-10883.	14.6	108
11	Energy-level alignment at organic heterointerfaces. Science Advances, 2015, 1, e1501127.	10.3	103
12	Structural Order in Perfluoropentacene Thin Films and Heterostructures with Pentacene. Langmuir, 2008, 24, 7294-7298.	3.5	85
13	Bandâ€Bending in Organic Semiconductors: the Role of Alkaliâ€Halide Interlayers. Advanced Materials, 2014, 26, 925-930.	21.0	85
14	Heteroepitaxy of Organicâ"Organic Nanostructures. Nano Letters, 2006, 6, 1207-1212.	9.1	82
15	The Molecular Orientation of para-Sexiphenyl on Cu(110) and Cu(110) p(2Ã—1)O. ChemPhysChem, 2007, 8, 1707-1712.	2.1	76
16	Probing the energy levels in hole-doped molecular semiconductors. Materials Horizons, 2015, 2, 427-433.	12.2	75
17	Influence of intramolecular polar bonds on interface energetics in perfluoro-pentacene on Ag(111). Physical Review B, 2010, 81, .	3.2	65
18	Crystallisation kinetics in thin films of dihexyl-terthiophene: the appearance of polymorphic phases. RSC Advances, 2012, 2, 4404.	3.6	64

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19	Epitaxy of Rodlike Organic Molecules on Sheet Silicatesâ€"A Growth Model Based on Experiments and Simulations. Journal of the American Chemical Society, 2011, 133, 3056-3062.	13.7	61
20	Organic Heteroepitaxy:p-Sexiphenyl on Uniaxially Oriented Î±-Sexithiophene. Advanced Materials, 2006, 18, 2466-2470.	21.0	57
21	Controlling energy level offsets in organic/organic heterostructures using intramolecular polar bonds. Applied Physics Letters, 2009, 94, .	3.3	57
22	High pressure x-ray study on anthracene. Journal of Chemical Physics, 2003, 119, 1078-1084.	3.0	52
23	High-pressure structural properties of anthracene up to 10 GPa. Physical Review B, 2002, 66, .	3.2	49
24	Two dimensional band structure mapping of organic single crystals using the new generation electron energy analyzer ARTOF. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 55-60.	1.7	49
25	Structure Solution of the 6,13-Pentacenequinone Surface-Induced Polymorph by Combining X-ray Diffraction Reciprocal-Space Mapping and Theoretical Structure Modeling. Crystal Growth and Design, 2011, 11, 600-606.	3.0	44
26	Organicâ"Organic Heteroepitaxy of Red-, Green-, and Blue-Emitting Nanofibers. ACS Nano, 2010, 4, 6244-6250.	14.6	42
27	Chain-length-dependent intermolecular packing in polyphenylenes: a high pressure study. Journal of Physics Condensed Matter, 2003, 15, 3375-3389.	1.8	41
28	Para-sexiphenyl thin films on KCl(100) surfaces: Growth morphologies and their individual epitaxial order. Journal of Crystal Growth, 2005, 284, 209-220.	1.5	39
29	The Impact of Local Work Function Variations on Fermi Level Pinning of Organic Semiconductors. Journal of Physical Chemistry C, 2013, 117, 22285-22289.	3.1	39
30	The electronic band alignment on nanoscopically patterned substrates. Organic Electronics, 2007, 8, 63-68.	2.6	38
31	Kinetic Isotope Effect in the Hydrogenation and Deuteration of Graphene. Advanced Functional Materials, 2013, 23, 1628-1635.	14.9	38
32	Electronic, optical, and structural properties of oligophenylene molecular crystals under high pressure: Anab initioinvestigation. Physical Review B, 2003, 67, .	3.2	37
33	A disordered layered phase in thin films of sexithiophene. Chemical Physics Letters, 2013, 574, 51-55.	2.6	36
34	Crystal growth of para-sexiphenyl on clean and oxygen reconstructed Cu(110) surfaces. Physical Chemistry Chemical Physics, 2011, 13, 14675.	2.8	35
35	Epitaxial growth of sexithiophene on mica surfaces. Physical Review B, 2011, 83, .	3.2	35
36	Color Tuning of Nanofibers by Periodic Organicâ€"Organic Hetero-Epitaxy. ACS Nano, 2012, 6, 4629-4638.	14.6	35

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37	Organic heterojunctions: Contact-induced molecular reorientation, interface states and charge re-distribution. Scientific Reports, 2016, 6, 21291.	3.3	35
38	Tuning the Electronic Structure of Graphene by Molecular Dopants: Impact of the Substrate. ACS Applied Materials & Interfaces, 2015, 7, 19134-19144.	8.0	34
39	Epitaxial order of pentacene on Cu(110)â€"(2Ã—1)O: One dimensional alignment induced by surface corrugation. Thin Solid Films, 2008, 517, 483-487.	1.8	32
40	Full X-ray pattern analysis of vacuum deposited pentacene thin films. European Physical Journal B, 2008, 66, 455-459.	1.5	32
41	Î±-Sexithiophene on Cu(110) and Cu(110)â€"(2Ã—1)O: An STM and NEXAFS study. Surface Science, 2009, 603, 412-418.	1.9	32
42	Origin of mechanical strain sensitivity of pentacene thin-film transistors. Organic Electronics, 2013, 14, 1323-1329.	2.6	32
43	Phase-separation and mixing in thin films of co-deposited rod-like conjugated molecules. Journal of Materials Chemistry, 2010, 20, 4055.	6.7	31
44	The Impact of Disorder on the Energy Level Alignment at Molecular Donorâ€"Acceptor Interfaces. Advanced Materials Interfaces, 2015, 2, 1500232.	3.7	31
45	Single Crystalline Nature of para-Sexiphenyl Crystallites Grown on KCl(100). Journal of Nanoscience and Nanotechnology, 2006, 6, 698-703.	0.9	28
46	Interrelation between Substrate Roughness and Thin-Film Structure of Functionalized Acenes on Graphite. Crystal Growth and Design, 2011, 11, 4996-5001.	3.0	28
47	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. Advanced Functional Materials, 2016, 26, 2493-2502.	14.9	28
48	On the phase-transition in anthracene induced by high pressure. Solid State Communications, 2004, 129, 103-106.	1.9	27
49	The epitaxial sexiphenyl (001) monolayer on TiO2(110): A grazing incidence X-ray diffraction study. Surface Science, 2006, 600, 4645-4649.	1.9	26
50	Phase transition and electronic properties of fluorene: A joint experimental and theoretical high-pressure study. Physical Review B, 2006, 73, .	3.2	26
51	Electrostatic Interactions Shape Molecular Organization and Electronic Structure of Organic Semiconductor Blends. Chemistry of Materials, 2020, 32, 1261-1271.	6.7	24
52	Grazing-incidence in-plane X-ray diffraction on ultra-thin organic films using standard laboratory equipment. Journal of Applied Crystallography, 2012, 45, 367-370.	4.5	18
53	Growth of sexithiophene crystals on Cu(110) and Cu(110)-(2Ã—1)O stripe phaseâ€"The influence of surface corrugation. Journal of Crystal Growth, 2009, 311, 1364-1369.	1.5	17
54	Structure and morphology of quaterphenyl thin films on Au(111)â€"The influence of surface contamination by carbon. Journal of Crystal Growth, 2005, 283, 397-403.	1.5	16

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55	Evolution of epitaxial order in para-sexiphenyl on KCl(100). Journal of Crystal Growth, 2010, 312, 333-339.	1.5	15
56	Interaction of Isophorone with Pd(111): A Combination of Infrared Reflectionâ€“Absorption Spectroscopy, Near-Edge X-ray Absorption Fine Structure, and Density Functional Theory Studies. Journal of Physical Chemistry C, 2014, 118, 27833-27842.	3.1	14
57	Structural and electronic implications for carrier injection intoÂorganic semiconductors. Applied Physics A: Materials Science and Processing, 2009, 97, 1-9.	2.3	12
58	Surface Induced Order of Solution Processed Caffeine Needles on Silica and Muscovite Mica. Crystal Growth and Design, 2013, 13, 1322-1328.	3.0	10
59	Performance enhancement of diindenoperylene-based organic photovoltaic cells by nanocolumn-arrays. Organic Electronics, 2014, 15, 2210-2217.	2.6	9
60	Calculated Optical Absorption of Anthracene under High Pressure. Synthetic Metals, 2003, 137, 935-936.	3.9	8
61	Interface Properties of Organic para-Hexaphenyl/Î±-Sexithiophene Heterostructures Deposited on Highly Oriented Pyrolytic Graphite. Langmuir, 2013, 29, 14444-14450.	3.5	8
62	The morphology of organic nanocolumn arrays: Amorphous versus crystalline solids. Journal of Materials Research, 2009, 24, 1492-1497.	2.6	6
63	Ag induced restructuring of the oxygen precovered Cu(110) surface. Surface Science, 2009, 603, 3410-3413.	1.9	6
64	Electronic properties and degradation upon VUV irradiation of sodium chloride on Ag(111) studied by photoelectron spectroscopy. Electronic Structure, 2021, 3, 034008.	2.8	3
65	X-ray diffraction study of anthracene under high pressure. Synthetic Metals, 2003, 137, 913-914.	3.9	2
66	Î±-Sexithiophene Films Grown On Cu(110)-(2x1)O: From Monolayer To Multilayers. Springer Proceedings in Physics, 2009, , 19-21.	0.2	1
67	The Crystal Sructure of Anthracene up to 22 GPa: a X-ray Diffraction Study. Materials Research Society Symposia Proceedings, 2003, 771, 7111.	0.1	0
68	Self Assembly of Anisotropic Organic Molecules: Diffusion versus Sticking Anisotropy. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
69	Organicâ€“Organic Heteroepitaxyâ€”The Method of Choice to Tune Optical Emission of Organic Nano-fibers?. Springer Series in Materials Science, 2013, , 49-78.	0.6	0