

Dieter Meissner

List of Publications by Year in descending order

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125
papers

6,820
citations

101384

36
h-index

60497

81
g-index

133
all docs

133
docs citations

133
times ranked

7130
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Solar Cells. <i>Advanced Materials</i> , 1991, 3, 129-138.	11.1	845
2	Nanoscale Morphology of Conjugated Polymer/Fullerene-Based Bulk- Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2004, 14, 1005-1011.	7.8	702
3	Metal cluster enhanced organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2000, 61, 97-105.	3.0	376
4	Photoelectrochemistry of cadmium sulfide. 1. Reanalysis of photocorrosion and flat-band potential. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3476-3483.	2.9	355
5	Organic p-i-n solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1-14.	1.1	308
6	Hybrid Solar Cells Based on Nanoparticles of CuInS ₂ in Organic Matrices. <i>Advanced Functional Materials</i> , 2003, 13, 165-171.	7.8	270
7	Modified, Amorphous Titania—A Hybrid Semiconductor for Detoxification and Current Generation by Visible Light. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 3034-3036.	7.2	225
8	Long-lived photoinduced charge separation for solar cell applications in phthalocyanine—fulleropyrrolidine dyad thin films Electronic supplementary information (ESI) available: plots of the refractive index, extinction coefficient and dielectric function of Pc-C60. See http://www.rsc.org/suppdata/jm/b2/b212621d/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 700-704.	6.7	210
9	Review of the micro-tubular solid oxide fuel cell. <i>Journal of Power Sources</i> , 2009, 193, 387-399.	4.0	202
10	Visible-Light Detoxification and Charge Generation by Transition Metal Chloride Modified Titania. <i>Chemistry - A European Journal</i> , 2000, 6, 379-384.	1.7	182
11	Modeling the optical absorption within conjugated polymer/fullerene-based bulk-heterojunction organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2003, 80, 105-113.	3.0	173
12	Monochromatic versus solar efficiencies of organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2000, 61, 87-95.	3.0	163
13	The influence of materials work function on the open circuit voltage of plastic solar cells. <i>Thin Solid Films</i> , 2002, 403-404, 368-372.	0.8	147
14	Photocorrosion of cadmium sulfide: Analysis by photoelectron spectroscopy. <i>Applied Surface Science</i> , 1987, 27, 423-436.	3.1	131
15	The effect of fullerene doping on photoelectric conversion using titanyl phthalocyanine and a perylene pigment. <i>Solar Energy Materials and Solar Cells</i> , 2000, 61, 1-8.	3.0	114
16	Light-induced generation of hydrogen at CdS-monograin membranes. <i>Chemical Physics Letters</i> , 1983, 96, 34-37.	1.2	108
17	A self-rechargeable and flexible polymer solar battery. <i>Solar Energy</i> , 2007, 81, 947-957.	2.9	97
18	Fundamental problems of water splitting at cadmium sulfide. <i>Chemical Physics Letters</i> , 1986, 127, 419-423.	1.2	87

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19	ZnS buffer layer for Cu ₂ ZnSn(SSe) ₄ monograin layer solar cell. <i>Solar Energy</i> , 2015, 111, 344-349.	2.9	84
20	Modeling of optical absorption in conjugated polymer/fullerene bulk-heterojunction plastic solar cells. <i>Thin Solid Films</i> , 2004, 451-452, 589-592.	0.8	83
21	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. <i>Nanotechnology</i> , 2004, 15, 163-170.	1.3	80
22	Hybrid solar cells based on inorganic nanoclusters and conjugated polymers. <i>Thin Solid Films</i> , 2004, 451-452, 612-618.	0.8	76
23	Electrical conductivity of amorphous hydrogenated carbon. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995, 72, 335-350.	0.6	64
24	Electrochemical Properties of Silicon Carbide. <i>Journal of the Electrochemical Society</i> , 1997, 144, 73-80.	1.3	63
25	Electroabsorption studies of phthalocyanine/perylene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2000, 63, 3-13.	3.0	61
26	Particle Size and Surface Chemistry in Photoelectrochemical Reactions at Semiconductor Particles. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2501-2507.	1.2	58
27	Core/shell nanomaterials in photovoltaics. <i>International Journal of Photoenergy</i> , 2003, 5, 199-208.	1.4	54
28	Temperature dependence of Cu ₂ ZnSn(SexS _{1-x}) ₄ monograin solar cells. <i>Solar Energy</i> , 2010, 84, 379-383.	2.9	53
29	Photocorrosion by Oxygen Uptake in Aqueous Cadmium Sulphide Suspensions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985, 89, 121-124.	0.9	51
30	STM investigation of the growth structure of Cu-phthalocyanine films with submolecular resolution. <i>Solar Energy Materials and Solar Cells</i> , 2000, 61, 73-85.	3.0	48
31	CuInS ₂ â€“Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells: Preparation by an in situ formation route, performance and stability issues. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1354-1361.	3.0	45
32	Semiconductor photocatalysis type B: synthesis of unsaturated α -amino esters from imines and olefins photocatalyzed by silica-supported cadmium sulfide. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 696-703.	1.6	42
33	Morphology effects in nanocrystalline CuInSe ₂ -conjugated polymer hybrid systems. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 59-64.	1.1	42
34	Monograin materials for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 65-68.	3.0	41
35	Photovoltaics of interconnected networks. <i>Synthetic Metals</i> , 2001, 121, 1551-1552.	2.1	39
36	Origin of the Open Circuit Voltage of Plastic Solar Cells. , 2001, 11, 374.		39

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37	Photocatalytic oxidation of ethanol on micrometer- and nanometer-sized semiconductor particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 151, 253-265.	2.0	36
38	Photoelectrochemistry of cadmium sulfide. 2. Influence of surface-state charging. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3484-3488.	2.9	34
39	Charge Transfer Processes at WSe ₂ Electrodes with pH-Controlled Stability. <i>Journal of the Electrochemical Society</i> , 1990, 137, 168-172.	1.3	30
40	Electrochemical features of electrodes modified with Multiple Nano Contacts (MNCs) from colloidal noble metal particles. <i>Electrochimica Acta</i> , 1995, 40, 1523-1535.	2.6	30
41	Optical and Magneto-optical Measurements of N,N'-Dimethylperylene-3,4,9,10-tetracarboxylic Acid Diimide Thin Films. <i>Journal of Physical Chemistry B</i> , 1998, 102, 967-973.	1.2	30
42	Analysis of current-potential characteristics of n- and p-type semiconductor electrodes. <i>Electrochimica Acta</i> , 1992, 37, 799-809.	2.6	29
43	Nanoscale Photocurrent Variations at Metal-Modified Semiconductor Surfaces. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6549-6557.	1.2	29
44	Junction effects in phthalocyanine thin film solar cells. <i>Synthetic Metals</i> , 1991, 41, 1173-1176.	2.1	28
45	A Fulleropyrrolidine-phthalocyanine dyad for photovoltaic applications. <i>Synthetic Metals</i> , 2003, 137, 1491-1492.	2.1	28
46	Electrodeposition of nanostructured diamond-like films by oxidation of lithium acetylide. <i>Electrochemistry Communications</i> , 2003, 5, 301-305.	2.3	26
47	Aggregate States and Energetic Disorder in Highly Ordered Nanostructures of para-Sexiphenyl Grown by Hot Wall Epitaxy. <i>Advanced Functional Materials</i> , 2004, 14, 970-978.	7.8	23
48	Fullerene Sensitized Silicon for Near- to Mid-Infrared Light Detection. <i>Advanced Materials</i> , 2010, 22, 647-650.	11.1	23
49	Editing of GluR2 RNA in the Gerbil Hippocampus after Global Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 1362-1365.	2.4	22
50	Direct investigation of the electrochemical double layer using the STM. <i>Surface Science</i> , 2005, 597, 80-92.	0.8	22
51	Study of Cu ₂ ZnSnSe ₄ monograin formation in molten KI starting from binary chalcogenides. <i>Thin Solid Films</i> , 2011, 519, 7399-7402.	0.8	22
52	STM investigations on primary particle morphology of polyaniline. <i>Acta Polymerica</i> , 1993, 44, 132-134.	1.4	21
53	Investigations of Porphyrins and Aromatic Tetracarboxylic Acid Diimides for use in Photovoltaics. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 218, 117-122.	0.3	18
54	Operating Microtubular SOFCs With Hydrogen Chloride and Hydrogen Sulfide Containing Fuels and Synthetic Wood Gas. <i>Journal of Fuel Cell Science and Technology</i> , 2006, 3, 280-283.	0.8	18

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55	The problem of light-induced oxygen production at catalyst-loaded CdS suspensions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 228, 45-53.	0.3	17
56	Optically detected magnetic resonance as a tool to study the morphology of perylene-derivative thin film. Chemical Physics Letters, 1999, 300, 626-632.	1.2	17
57	Acid treatment and pasteurization affect the shelf life and spoilage ecology of vacuum-packaged Vienna sausages. Food Microbiology, 1996, 13, 69-74.	2.1	16
58	On the kinetics of electron transfer reactions at illuminated InP electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 214, 685-698.	0.3	15
59	Charge Carrier Photogeneration and Transport in Phthalocyanine/Perylene Thin Film Solar Cells. Molecular Crystals and Liquid Crystals, 1993, 229, 111-116.	0.3	15
60	Electrochemical pulsed deposition of diamond-like films by powerful coulostatic discharge in dimethylsulfoxide solution of lithium acetylide. Chemical Physics Letters, 2003, 378, 95-100.	1.2	15
61	The Use of a High Temperature Wind Tunnel for MT-SOFC Testing – Part I: Detailed Experimental Temperature Measurement of an MT-SOFC Using an Avant-Garde High Temperature Wind Tunnel and Various Measurement Techniques. Journal of Fuel Cell Science and Technology, 2010, 7, .	0.8	15
62	Ageing of kesterite solar cells 1: Degradation processes and their influence on solar cell parameters. Thin Solid Films, 2019, 669, 595-599.	0.8	15
63	Oriented organic semiconductor thin films. Synthetic Metals, 2003, 138, 59-63.	2.1	14
64	Photovoltaic properties of nanocrystalline CuInS ₂ /methanofullerene solar cells. Molecular Crystals and Liquid Crystals, 2002, 385, 129-136.	0.4	13
65	CZTS Monograin Powders and Thin Films. Advanced Materials Research, 2011, 222, 8-13.	0.3	13
66	Electrical and optical properties of plasma-deposited amorphous hydrocarbon films. Journal of Non-Crystalline Solids, 1991, 137-138, 843-846.	1.5	12
67	Optical absorption of amorphous hydrogenated carbon thin films. Thin Solid Films, 1996, 283, 196-203.	0.8	12
68	Stability, reliability, upscaling and possible technological applications of kesterite solar cells. JPhys Energy, 2020, 2, 024009.	2.3	12
69	Ambiguous doping effects in amorphous hydrogenated carbon films prepared by PACVD. Diamond and Related Materials, 1994, 3, 1103-1106.	1.8	11
70	Reaction enthalpies of Cu ₂ ZnSnSe ₄ synthesis in KI. Journal of Thermal Analysis and Calorimetry, 2015, 119, 1555-1564.	2.0	11
71	Investigation of rough surfaces on Cu ₂ ZnSn(S _x Se _{1-x}) ₄ monograin layers using light beam induced current measurements. Applied Surface Science, 2017, 423, 465-468.	3.1	11
72	Effect of germanium incorporation on the properties of kesterite Cu ₂ ZnSn(S,Se) ₄ monograins. Thin Solid Films, 2019, 669, 315-320.	0.8	11

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73	Problems of roughness measurements using STM. Ultramicroscopy, 1992, 42-44, 1403-1411.	0.8	10
74	STM measurement of current-potential curves at a semiconductor surface. Electrochimica Acta, 2000, 45, 3213-3223.	2.6	10
75	Scanning tunneling microscopy investigation of tricycloquinazoline liquid crystals on gold. Thin Solid Films, 2000, 358, 241-249.	0.8	10
76	Optoelectronic devices based on para-sexiphenyl films grown by Hot Wall Epitaxy. Synthetic Metals, 2003, 139, 573-576.	2.1	10
77	Spatially resolved optoelectrical performance investigations of $\text{Cu}_{2-x}\text{ZnSnS}_{3.2-x}\text{Se}_{0.8}$ photovoltaic devices. Energy Science and Engineering, 2018, 6, 563-569.	1.9	10
78	Photoelectrochemical solar cells. Journal of Chemical Education, 1984, 61, 217.	1.1	9
79	Asymmetric Hydrogenation of Amino Acid Precursors promoted by a new type of cholesterol amphiphiles: Investigation of aggregation behaviour and stereoselective effects. Journal für Praktische Chemie, Chemiker-Zeitung, 1996, 338, 614-619.	0.5	9
80	The Use of a High Temperature Wind Tunnel for MT-SOFC Testing-Part II: Use of Computational Fluid Dynamics Software in Order to Study Previous Measurements. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	9
81	Local nanoscale photocurrent characterization of semiconductor interfaces by scanning tunneling microscopy. Electrochimica Acta, 1997, 42, 2881-2888.	2.6	8
82	Highly aligned organic semiconductor thin films grown by hot wall epitaxy. Molecular Crystals and Liquid Crystals, 2002, 385, 61-70.	0.4	8
83	Electrical characterization of plasma-deposited hydrogenated amorphous carbon films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 139, 334-388.	2.6	7
84	Charge carrier photogeneration in organic solar cells. , 1992, , .		7
85	Nanoscale characterization of semiconductor surfaces by spatially resolved photocurrent measurements. Fresenius' Journal of Analytical Chemistry, 1997, 358, 54-58.	1.5	7
86	Magneto-optical studies of perylene tetracarboxylic acid diimide thin films. Optical Materials, 1998, 9, 295-298.	1.7	7
87	Hybrid solar cells based on CuInS_2 and MEH-PPV. , 2006, , .		7
88	Characterization of Fuel Cells and Fuel Cell Systems Using Three-Dimensional X-Ray Tomography. Journal of Fuel Cell Science and Technology, 2007, 4, 84-87.	0.8	7
89	Growth of CdTe monograin powders. Physica Scripta, 1997, T69, 155-158.	1.2	6
90	Nanoscale Semiconductor Interface Characterization by Photo-STM. Advanced Materials, 1998, 10, 619-6923.	11.1	5

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91	Cu ₂ ZnSnSe ₄ formation and reaction enthalpies in molten NaI starting from binary chalcogenides. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1313-1321.	2.0	5
92	Reaction pathway to Cu ₂ ZnSnSe ₄ formation in CdI ₂ . Journal of Thermal Analysis and Calorimetry, 2018, 134, 409-421.	2.0	5
93	All-solution-processed transparent front contact for monograin layer kesterite solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 547-555.	4.4	5
94	Ageing of kesterite solar cells 2: Impact on photocurrent generation. Thin Solid Films, 2019, 669, 509-513.	0.8	5
95	Tip effects in the scanning-tunneling microscopy of semiconductor electrodes. Surface Science, 2001, 479, 183-190.	0.8	4
96	Micro-tubular SOFCs to Measure the Effects of Cross Flow on Mass Transfer Rates Around the Perimeter of a Cylindrical Electrode. ECS Transactions, 2009, 25, 1283-1293.	0.3	4
97	CZTS monograin membranes for photoelectrochemical fuel production preparation and characterization. , 2015, , .		4
98	Modified, Amorphous Titania "A Hybrid Semiconductor for Detoxification and Current Generation by Visible Light. , 1998, 37, 3034.		4
99	Die zunehmende Verbreitung eines Massenvernichtungsmittels. Nachrichten Aus Der Chemie, 1989, 37, 254-263.	0.0	3
100	Monograin layers and membranes for photovoltaics. , 1996, , .		3
101	<title>Formation and properties of chemically sprayed ZnO films</title>. , 1997, , .		3
102	Comparative studies on solar cell structures using zinc phthalocyanine and fullerenes. , 2006, 6192, 348.		3
103	Scrutiny of MT-SOFC Stack Manifolding Design Using CFD. The Open Fuel Cells Journal, 2012, 5, 1-13.	1.0	3
104	Kesterite monograins for solar cells and water splitting applications. Thin Solid Films, 2021, 739, 138981.	0.8	3
105	Photoelektrochemische Solarenergienutzung. Nachrichten Aus Der Chemie, 1990, 38, 1490-1498.	0.0	2
106	Monograin Powders And Layers For Photovoltaic Application. Materials Research Society Symposia Proceedings, 1996, 426, 563.	0.1	2
107	Studies of the internal electric field in organic light-emitting diodes and solar cells by electroabsorption spectroscopy. , 2000, , .		2
108	CZTS monograin membranes for photoelectrochemical fuel production modifications for fuel production. , 2015, , .		2

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109	The Nexus of World Electricity and Global Sustainable Development. <i>Energies</i> , 2021, 14, 5843.	1.6	2
110	Reply to Comments on "Photoelectrochemistry of cadmium sulfide. 1. Reanalysis of photocorrosion and flat-band potential". <i>The Journal of Physical Chemistry</i> , 1990, 94, 4374-4375.	2.9	1
111	Reply to comments on "Photoelectrochemistry of cadmium sulfide. 2. Influence of surface-state charging". <i>The Journal of Physical Chemistry</i> , 1990, 94, 4376-4377.	2.9	1
112	Monograin layers as optoelectronic devices. , 1997, , .		1
113	Molecular scale organized poly(MDMO-p-phenylene vinylene)â€“heteropolyacid composites. <i>Synthetic Metals</i> , 2006, 156, 843-847.	2.1	1
114	Electrochemical treatment of effluents from adipic acid plants. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 32, 462-468.	0.2	1
115	Molecular scale organized polyconjugated polymerâ€“heteropolyacid composites. <i>Proceedings of the Estonian Academy of Sciences</i> , 2009, 58, 12.	0.9	1
116	<title>MOMS-02/Spacelab D-2: a high-resolution multispectral stereo scanner for the second German Spacelab mission</title>. , 1991, 1490, 94.		0
117	Investigations of the kinetics of charge-transfer reactions in photoelectrochemical solar cells. , 1992, , .		0
118	Mechanisms of Photo Currents in Phthalocyanine Thin Film Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 1992, 247, 841.	0.1	0
119	Scanning tunneling microscopy studies of organic and inorganic materials for photovoltaics and photoelectrochemistry. , 1992, , .		0
120	Wissenschaft aktuell. <i>Chemie in Unserer Zeit</i> , 1995, 29, 94-99.	0.1	0
121	AbrÃ¼stungsabkommen in der (Realisierungs-)Krise. <i>Nachrichten Aus Der Chemie</i> , 2001, 49, 1416-1418.	0.0	0
122	Investigation of new polymers with regard to the application in hybrid solar cells. , 2006, , .		0
123	The Nexus of Energy for Free and World Society. , 2018, , .		0
124	Sensing infrared light with an organic/inorganic hetero-junction. <i>Springer Proceedings in Physics</i> , 2009, , 153-157.	0.1	0
125	Monograin Membranes for Biomimetic Solar Water Splitting : Stepwise Opening of Ionically Conductive Channels. , 2021, , .		0