

Dieter Meissner

List of Publications by Year in descending order

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125
papers

6,820
citations

101384

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h-index

60497

81
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133
all docs

133
docs citations

133
times ranked

7130
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nexus of World Electricity and Global Sustainable Development. <i>Energies</i> , 2021, 14, 5843.	1.6	2
2	Kesterite monograins for solar cells and water splitting applications. <i>Thin Solid Films</i> , 2021, 739, 138981.	0.8	3
3	Monograin Membranes for Biomimetic Solar Water Splitting : Stepwise Opening of Ionically Conductive Channels. , 2021, , .		0
4	Stability, reliability, upscaling and possible technological applications of kesterite solar cells. <i>JPhys Energy</i> , 2020, 2, 024009.	2.3	12
5	All-€solution-processed transparent front contact for monograin layer kesterite solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 547-555.	4.4	5
6	Ageing of kesterite solar cells 2: Impact on photocurrent generation. <i>Thin Solid Films</i> , 2019, 669, 509-513.	0.8	5
7	Effect of germanium incorporation on the properties of kesterite $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ monograins. <i>Thin Solid Films</i> , 2019, 669, 315-320.	0.8	11
8	Ageing of kesterite solar cells 1: Degradation processes and their influence on solar cell parameters. <i>Thin Solid Films</i> , 2019, 669, 595-599.	0.8	15
9	Reaction pathway to $\text{Cu}_2\text{ZnSnSe}_4$ formation in CdI_2 . <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 409-421.	2.0	5
10	The Nexus of Energy for Free and World Society. , 2018, , .		0
11	Spatially resolved opto-€electrical performance investigations of $\text{Cu}_{2.2}\text{ZnSn}_{3.2}\text{Se}_{0.8}$ photovoltaic devices. <i>Energy Science and Engineering</i> , 2018, 6, 563-569.	1.9	10
12	Investigation of rough surfaces on $\text{Cu}_2\text{ZnSn}(\text{SxSe}_{1-x})_4$ monograin layers using light beam induced current measurements. <i>Applied Surface Science</i> , 2017, 423, 465-468.	3.1	11
13	Reaction enthalpies of $\text{Cu}_2\text{ZnSnSe}_4$ synthesis in KI. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1555-1564.	2.0	11
14	CZTS monograin membranes for photoelectrochemical fuel production preparation and characterization. , 2015, , .		4
15	CZTS monograin membranes for photoelectrochemical fuel production modifications for fuel production. , 2015, , .		2
16	ZnS buffer layer for $\text{Cu}_2\text{ZnSn}(\text{SSe})_4$ monograin layer solar cell. <i>Solar Energy</i> , 2015, 111, 344-349.	2.9	84
17	$\text{Cu}_2\text{ZnSnSe}_4$ formation and reaction enthalpies in molten NaI starting from binary chalcogenides. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1313-1321.	2.0	5
18	Scrutiny of MT-SOFC Stack Manifolding Design Using CFD. <i>The Open Fuel Cells Journal</i> , 2012, 5, 1-13.	1.0	3

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19	CZTS Monograin Powders and Thin Films. <i>Advanced Materials Research</i> , 2011, 222, 8-13.	0.3	13
20	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
21	CuInS ₂ –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
22	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. <i>Journal of Fuel Cell Science and Technology</i> , 2011, 8, .	0.8	9
23	Fullerene Sensitized Silicon for Near- to Mid-Infrared Light Detection. <i>Advanced Materials</i> , 2010, 22, 647-650.	11.1	23
24	Temperature dependence of Cu ₂ ZnSn(SexS _{1-x}) ₄ monograin solar cells. <i>Solar Energy</i> , 2010, 84, 379-383.	2.9	53
25	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. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	15
26	Molecular scale organized polyconjugated polymer–heteropolyacid composites. <i>Proceedings of the Estonian Academy of Sciences</i> , 2009, 58, 12.	0.9	1
27	Micro-tubular SOFCs to Measure the Effects of Cross Flow on Mass Transfer Rates Around the Perimeter of a Cylindrical Electrode. <i>ECS Transactions</i> , 2009, 25, 1283-1293.	0.3	4
28	Review of the micro-tubular solid oxide fuel cell. <i>Journal of Power Sources</i> , 2009, 193, 387-399.	4.0	202
29	Monograin materials for solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 65-68.	3.0	41
30	Sensing infrared light with an organic/inorganic hetero-junction. <i>Springer Proceedings in Physics</i> , 2009, , 153-157.	0.1	0
31	Characterization of Fuel Cells and Fuel Cell Systems Using Three-Dimensional X-Ray Tomography. <i>Journal of Fuel Cell Science and Technology</i> , 2007, 4, 84-87.	0.8	7
32	Electrochemical treatment of effluents from adipic acid plants. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 32, 462-468.	0.2	1
33	A self-rechargeable and flexible polymer solar battery. <i>Solar Energy</i> , 2007, 81, 947-957.	2.9	97
34	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
35	Hybrid solar cells based on CuInS ₂ and MEH-PPV. , 2006, , .		7
36	Comparative studies on solar cell structures using zinc phthalocyanine and fullerenes. , 2006, 6192, 348.		3

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37	Molecular scale organized poly(MDMO-p-phenylene vinylene)â€“heteropolyacid composites. Synthetic Metals, 2006, 156, 843-847.	2.1	1
38	Investigation of new polymers with regard to the application in hybrid solar cells. , 2006, , .		0
39	Direct investigation of the electrochemical double layer using the STM. Surface Science, 2005, 597, 80-92.	0.8	22
40	Hybrid solar cells based on inorganic nanoclusters and conjugated polymers. Thin Solid Films, 2004, 451-452, 612-618.	0.8	76
41	Modeling of optical absorption in conjugated polymer/fullerene bulk-heterojunction plastic solar cells. Thin Solid Films, 2004, 451-452, 589-592.	0.8	83
42	Organic p-i-n solar cells. Applied Physics A: Materials Science and Processing, 2004, 79, 1-14.	1.1	308
43	Morphology effects in nanocrystalline CuInSe ₂ -conjugated polymer hybrid systems. Applied Physics A: Materials Science and Processing, 2004, 79, 59-64.	1.1	42
44	Nanoscale Morphology of Conjugated Polymer/Fullerene-Based Bulk- Heterojunction Solar Cells. Advanced Functional Materials, 2004, 14, 1005-1011.	7.8	702
45	Aggregate States and Energetic Disorder in Highly Ordered Nanostructures of para-Sexiphenyl Grown by Hot Wall Epitaxy. Advanced Functional Materials, 2004, 14, 970-978.	7.8	23
46	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. Nanotechnology, 2004, 15, 163-170.	1.3	80
47	Hybrid Solar Cells Based on Nanoparticles of CuInS ₂ in Organic Matrices. Advanced Functional Materials, 2003, 13, 165-171.	7.8	270
48	Electrochemical pulsed deposition of diamond-like films by powerful coulstatic discharge in dimethylsulfoxide solution of lithium acetylide. Chemical Physics Letters, 2003, 378, 95-100.	1.2	15
49	Electrodeposition of nanostructured diamond-like films by oxidation of lithium acetylide. Electrochemistry Communications, 2003, 5, 301-305.	2.3	26
50	Modeling the optical absorption within conjugated polymer/fullerene-based bulk-heterojunction organic solar cells. Solar Energy Materials and Solar Cells, 2003, 80, 105-113.	3.0	173
51	A Fulleropyrrolidine-phthalocyanine dyad for photovoltaic applications. Synthetic Metals, 2003, 137, 1491-1492.	2.1	28
52	Oriented organic semiconductor thin films. Synthetic Metals, 2003, 138, 59-63.	2.1	14
53	Optoelectronic devices based on para-sexiphenyl films grown by Hot Wall Epitaxy. Synthetic Metals, 2003, 139, 573-576.	2.1	10
54	Long-lived photoinduced charge separation for solar cell applications in phthalocyanineâ€“fulleropyrrolidine dyad thin filmsElectronic 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/ . Journal of Materials Chemistry, 2003, 13, 700-704.	6.7	210

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55	Core/shell nanomaterials in photovoltaics. International Journal of Photoenergy, 2003, 5, 199-208.	1.4	54
56	Semiconductor photocatalysis type B: synthesis of unsaturated α -amino esters from imines and olefins photocatalyzed by silica-supported cadmium sulfide. Photochemical and Photobiological Sciences, 2002, 1, 696-703.	1.6	42
57	Photovoltaic properties of nanocrystalline cuins 2 /methanofullerene solar cells. Molecular Crystals and Liquid Crystals, 2002, 385, 129-136.	0.4	13
58	Highly aligned organic semiconductor thin films grown by hot wall epitaxy. Molecular Crystals and Liquid Crystals, 2002, 385, 61-70.	0.4	8
59	The influence of materials work function on the open circuit voltage of plastic solar cells. Thin Solid Films, 2002, 403-404, 368-372.	0.8	147
60	Photocatalytic oxidation of ethanol on micrometer- and nanometer-sized semiconductor particles. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 151, 253-265.	2.0	36
61	Photovoltaics of interconnected networks. Synthetic Metals, 2001, 121, 1551-1552.	2.1	39
62	Tip effects in the scanning-tunneling microscopy of semiconductor electrodes. Surface Science, 2001, 479, 183-190.	0.8	4
63	AbrÃ¼stungsabkommen in der (Realisierungs-)Krise. Nachrichten Aus Der Chemie, 2001, 49, 1416-1418.	0.0	0
64	Origin of the Open Circuit Voltage of Plastic Solar Cells. , 2001, 11, 374.		39
65	Visible-Light Detoxification and Charge Generation by Transition Metal Chloride Modified Titania. Chemistry - A European Journal, 2000, 6, 379-384.	1.7	182
66	STM measurement of currentâ€“potential curves at a semiconductor surface. Electrochimica Acta, 2000, 45, 3213-3223.	2.6	10
67	Scanning tunneling microscopy investigation of tricycloquinazoline liquid crystals on gold. Thin Solid Films, 2000, 358, 241-249.	0.8	10
68	Electroabsorption studies of phthalocyanine/perylene solar cells. Solar Energy Materials and Solar Cells, 2000, 63, 3-13.	3.0	61
69	The effect of fullerene doping on photoelectric conversion using titanyl phthalocyanine and a perylene pigment. Solar Energy Materials and Solar Cells, 2000, 61, 1-8.	3.0	114
70	STM investigation of the growth structure of Cu-phthalocyanine films with submolecular resolution. Solar Energy Materials and Solar Cells, 2000, 61, 73-85.	3.0	48
71	Monochromatic versus solar efficiencies of organic solar cells. Solar Energy Materials and Solar Cells, 2000, 61, 87-95.	3.0	163
72	Metal cluster enhanced organic solar cells. Solar Energy Materials and Solar Cells, 2000, 61, 97-105.	3.0	376

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73	Studies of the internal electric field in organic light-emitting diodes and solar cells by electroabsorption spectroscopy. , 2000, , .		2
74	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
75	Nanoscale Semiconductor Interface Characterization by Photo-STM. Advanced Materials, 1998, 10, 619-6923.	11.1	5
76	Modified, Amorphous Titaniaâ€”A Hybrid Semiconductor for Detoxification and Current Generation by Visible Light. Angewandte Chemie - International Edition, 1998, 37, 3034-3036.	7.2	225
77	Magneto-optical studies of perylene tetracarboxylic acid diimide thin films. Optical Materials, 1998, 9, 295-298.	1.7	7
78	Nanoscale Photocurrent Variations at Metal-Modified Semiconductor Surfaces. Journal of Physical Chemistry B, 1998, 102, 6549-6557.	1.2	29
79	Optical and Magneto-optical Measurements of N,Nâ€”Dimethylperylene-3,4,9,10-tetracarboxylic Acid Diimide Thin Films. Journal of Physical Chemistry B, 1998, 102, 967-973.	1.2	30
80	Modified, Amorphous Titaniaâ€”A Hybrid Semiconductor for Detoxification and Current Generation by Visible Light. , 1998, 37, 3034.		4
81	Growth of CdTe monograin powders. Physica Scripta, 1997, T69, 155-158.	1.2	6
82	Monograin layers as optoelectronic devices. , 1997, , .		1
83	<title>Formation and properties of chemically sprayed ZnO films</title>. , 1997, , .		3
84	Particle Size and Surface Chemistry in Photoelectrochemical Reactions at Semiconductor Particles. Journal of Physical Chemistry B, 1997, 101, 2501-2507.	1.2	58
85	Electrochemical Properties of Silicon Carbide. Journal of the Electrochemical Society, 1997, 144, 73-80.	1.3	63
86	Nanoscale characterization of semiconductor surfaces by spatially resolved photocurrent measurements. Fresenius' Journal of Analytical Chemistry, 1997, 358, 54-58.	1.5	7
87	Local nanoscale photocurrent characterization of semiconductor interfaces by scanning tunneling microscopy. Electrochimica Acta, 1997, 42, 2881-2888.	2.6	8
88	Monograin layers and membranes for photovoltaics. , 1996, , .		3
89	Monograin Powders And Layers For Photovoltaic Application. Materials Research Society Symposia Proceedings, 1996, 426, 563.	0.1	2
90	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

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91	Optical absorption of amorphous hydrogenated carbon thin films. <i>Thin Solid Films</i> , 1996, 283, 196-203.	0.8	12
92	Asymmetric Hydrogenation of Amino Acid Precursors promoted by a new type of cholesterol amphiphiles: Investigation of aggregation behaviour and stereoselective effects. <i>Journal für Praktische Chemie, Chemiker-Zeitung</i> , 1996, 338, 614-619.	0.5	9
93	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
94	Wissenschaft aktuell. <i>Chemie in Unserer Zeit</i> , 1995, 29, 94-99.	0.1	0
95	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
96	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
97	Ambiguous doping effects in amorphous hydrogenated carbon films prepared by PACVD. <i>Diamond and Related Materials</i> , 1994, 3, 1103-1106.	1.8	11
98	STM investigations on primary particle morphology of polyaniline. <i>Acta Polymerica</i> , 1993, 44, 132-134.	1.4	21
99	Charge Carrier Photogeneration and Transport in Phthalocyanine/Perylene Thin Film Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 229, 111-116.	0.3	15
100	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
101	Charge carrier photogeneration in organic solar cells. , 1992, , .		7
102	Investigations of the kinetics of charge-transfer reactions in photoelectrochemical solar cells. , 1992, , .		0
103	Mechanisms of Photo Currents in Phthalocyanine Thin Film Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 1992, 247, 841.	0.1	0
104	Scanning tunneling microscopy studies of organic and inorganic materials for photovoltaics and photoelectrochemistry. , 1992, , .		0
105	Problems of roughness measurements using STM. <i>Ultramicroscopy</i> , 1992, 42-44, 1403-1411.	0.8	10
106	Analysis of current-potential characteristics of n- and p-type semiconductor electrodes. <i>Electrochimica Acta</i> , 1992, 37, 799-809.	2.6	29
107	Electrical and optical properties of plasma-deposited amorphous hydrocarbon films. <i>Journal of Non-Crystalline Solids</i> , 1991, 137-138, 843-846.	1.5	12
108	Junction effects in phthalocyanine thin film solar cells. <i>Synthetic Metals</i> , 1991, 41, 1173-1176.	2.1	28

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109	Electrical characterization of plasma-deposited hydrogenated amorphous carbon films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 139, 334-388.	2.6	7
110	Organic Solar Cells. <i>Advanced Materials</i> , 1991, 3, 129-138.	11.1	845
111	<title>MOMS-02/Spacelab D-2: a high-resolution multispectral stereo scanner for the second German Spacelab mission</title>. , 1991, 1490, 94.		0
112	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
113	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
114	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
115	Photoelektrochemische Solarenergienutzung. <i>Nachrichten Aus Der Chemie</i> , 1990, 38, 1490-1498.	0.0	2
116	Die zunehmende Verbreitung eines Massenvernichtungsmittels. <i>Nachrichten Aus Der Chemie</i> , 1989, 37, 254-263.	0.0	3
117	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
118	Photoelectrochemistry of cadmium sulfide. 2. Influence of surface-state charging. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3484-3488.	2.9	34
119	The problem of light-induced oxygen production at catalyst-loaded CdS suspensions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 228, 45-53.	0.3	17
120	Photocorrosion of cadmium sulfide: Analysis by photoelectron spectroscopy. <i>Applied Surface Science</i> , 1987, 27, 423-436.	3.1	131
121	Fundamental problems of water splitting at cadmium sulfide. <i>Chemical Physics Letters</i> , 1986, 127, 419-423.	1.2	87
122	On the kinetics of electron transfer reactions at illuminated InP electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 214, 685-698.	0.3	15
123	Photocorrosion by Oxygen Uptake in Aqueous Cadmium Sulphide Suspensions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1985, 89, 121-124.	0.9	51
124	Photoelectrochemical solar cells. <i>Journal of Chemical Education</i> , 1984, 61, 217.	1.1	9
125	Light-induced generation of hydrogen at CdS-monograin membranes. <i>Chemical Physics Letters</i> , 1983, 96, 34-37.	1.2	108