Arnulf JÃ¤ger-Waldau

List of Publications by Year
in descending order

100 papers	3,838 citations	126907 33 h-index	128289 60 g-index
109 all docs	109 docs citations	109 times ranked	3875 citing authors

#	Article	IF	Citations
1	Development of Highâ€Efficiency Solar Cell Modules for Photovoltaicâ€Powered Vehicles. Solar Rrl, 2022, 6, 2100429.	5.8	12
2	True Cost of Solar Hydrogen. Solar Rrl, 2022, 6, 2100487.	5.8	62
3	Comment on Seibert, M.K.; Rees, W.E. Through the Eye of a Needle: An Eco-Heterodox Perspective on the Renewable Energy Transition. Energies 2021, 14, 4508. Energies, 2022, 15, 971.	3.1	5
4	Impact of climatic conditions on prospects for integrated photovoltaics in electric vehicles. Renewable and Sustainable Energy Reviews, 2022, 158, 112109.	16.4	26
5	Snapshot of photovoltaics â€“ February 2022. EPJ Photovoltaics, 2022, 13, 9.	1.6	27
6	Green hydrogen in Europe â€“ A regional assessment: Substituting existing production with electrolysis powered by renewables. Energy Conversion and Management, 2021, 228, 113649.	9.2	272
7	Overview of the Global PV Industry. , 2021, , .		2
8	Solar photovoltaics is ready to power a sustainable future. Joule, 2021, 5, 1041-1056.	24.0	265
9	Assessment of floating solar photovoltaics potential in existing hydropower reservoirs in Africa. Renewable Energy, 2021, 169, 687-699.	8.9	103
10	The Role of Photovoltaics in the Response of the European Member States to the European Green Deal. , 2021, , .		1
11	The role of photovoltaics for the European Green Deal and the recovery plan. Renewable and Sustainable Energy Reviews, 2021, 144, 111017.	16.4	108
12	Analysis of temperature coefficients and their effect on efficiency of solar cell modules for photovoltaics-powered vehicles. Journal Physics D: Applied Physics, 2021, 54, 504002.	2.8	9
13	Snapshot of photovoltaics â˜’ March 2021. EPJ Photovoltaics, 2021, 12, 2.	1.6	44
14	The Untapped Area Potential for Photovoltaic Power in the European Union. Clean Technologies, 2020, 2, 440-446.	4.2	21
15	Snapshot of Photovoltaicsâ€”February 2020. Energies, 2020, 13, 930.	3.1	122
16	Will Electric Vehicles Be Killed (again) or Are They the Next Mobility Killer App?. Energies, 2020, 13, 1828.	3.1	21
17	How photovoltaics can contribute to GHG emission reductions of 55% in the EU by 2030. Renewable and Sustainable Energy Reviews, 2020, 126, 109836.	16.4	114
18	Self-consumption of electricity produced with photovoltaic systems in apartment buildings - Update of the situation in various IEA PVPS countries. , 2020, , .		4

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19	The European Green Deal - What's in it for Photovoltaics?. , 2020, , .		2
20	Material research for photovoltaics - from lab to market. , 2020, , .		1
21	A high-resolution geospatial assessment of the rooftop solar photovoltaic potential in the European Union. Renewable and Sustainable Energy Reviews, 2019, 114, 109309.	16.4	220
22	Solar Photovoltaic Electricity Generation: A Lifeline for the European Coal Regions in Transition. Sustainability, 2019, 11, 3703.	3.2	38
23	Snapshot of Photovoltaicsâ€"February 2019. Energies, 2019, 12, 769.	3.1	56
24	Electricity produced from photovoltaic systems in apartment buildings and self-consumption : Comparison of the situation in various IEA PVPS countries. , 2019, , .		4
25	The New European Renewable Energy Directive - Opportunities and Challenges for Photovoltaics. , 2019, , .		4
26	A Snapshot of Global PV Markets - The Latest Survey Results on PV Markets and Policies from the IEA PVPS Programme in 2018. , 2019, , .		5
27	PV Markets and Industry. , 2019, , 1-38.		5
28	Photovoltaics and wind status in the European Union after the Paris Agreement. Renewable and Sustainable Energy Reviews, 2018, 81, 2460-2471.	16.4	133
29	Photovoltaics in Europe after the Paris Agreement. , 2018, , .		16
30	A Snapshot of Global PV Markets - The Latest Survey Results on PV Markets and Policies from the IEA PVPS Programme in 2017. , 2018, , .		12
31	Self-consumption of electricity produced from PV systems in apartment buildings - Comparison of the situation in Australia, Austria, Denmark, Germany, Greece, Italy, Spain, Switzerland and the USA. , 2018, , .		12
32	Snapshot of photovoltaics â˜' February 2018. EPJ Photovoltaics, 2018, 9, 6.	1.6	35
33	Energy Return on Energy Invested (ERoEI) for photovoltaic solar systems in regions of moderate insolation: A comprehensive response. Energy Policy, 2017, 102, 377-384.	8.8	59
34	A methodology for maximizing the benefits of solar landfills on closed sites. Renewable and Sustainable Energy Reviews, 2017, 76, 1291-1300.	16.4	37
35	Snapshot of Photovoltaicsâ€"March 2017. Sustainability, 2017, 9, 783.	3.2	35
36	Residential Photovoltaic Electricity Generation in the European Union 2017-Opportunities and Challenges. , 2017, , .		3

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37	Exploiting existing dams for solar PV system installations. Progress in Photovoltaics: Research and Applications, 2016, 24, 229-239.	8.1	29
38	The potential of water infrastructure to accommodate solar PV systems in Mediterranean islands. Solar Energy, 2016, 136, 174-182.	6.1	62
39	THE PHOTOVOLTAIC BUSINESS: MANUFACTURERS AND MARKETS. Series on Photoconversion of Solar Energy, 2014, , 613-662.	0.2	0
40	European renewable government policies versus model predictions. Energy Strategy Reviews, 2014, 2, 257-264.	7.3	11
41	The Photovoltaic Market. , 2013, , 549-564.		0
42	The Photovoltaic Industry. , 2013, , 565-583.		2
43	Progress in Chalcopyrite Compound Semiconductor Research for Photovoltaic Applications and Transfer of Results into Actual Solar Cell Production. , 2013, , 305-325.		2
44	Realizing solar power's potential in the European Union. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120391.	3.4	2
45	Photovoltaics photovoltaic (PV) , Status of. , 2013, , 174-211.		3
46	Thin Film Photovoltaics: Markets and Industry. International Journal of Photoenergy, 2012, 2012, 1-6.	2.5	22
47	Overview of the Global PV Industry. , 2012, , 161-177.		2
48	Progress in Chalcopyrite Compound Semiconductor Research for Photovoltaic Applications and Transfer of Results into Actual Solar Cell Production. , 2012, , 373-395.		7
49	Photovoltaics photovoltaic (PV) , Status of. , 2012, , 7935-7972.		0
50	Direct Solar Energy. , 2011, , 333-400.		25
51	Quo Vadis photovoltaics 2011. EPJ Photovoltaics, 2011, 2, 20801.	1.6	3
52	Renewable Energy and Climate Change. , 2011, , 161-208.		24
53	Renewable electricity in Europe. Renewable and Sustainable Energy Reviews, 2011, 15, 3703-3716.	16.4	81
54	Progress in chalcopyrite compound semiconductor research for photovoltaic applications and transfer of results into actual solar cell production. Solar Energy Materials and Solar Cells, 2011, 95, 1509-1517.	6.2	79

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55	CuGa Se chalcopyrite-related thin films grown by chemical close-spaced vapor transport (CCSVT) for photovoltaic application: Surface- and bulk material properties, oxidation and surface Ge-doping. Solar Energy Materials and Solar Cells, 2011, 95, 1555-1580.	6.2	19
56	Photovoltaics: Status and Perspectives until 2020. Green, 2011, 1, .	0.4	6
57	Risk adjusted financial costs of photovoltaics. Energy Policy, 2010, 38, 3807-3819.	8.8	49
58	More competition: Threat or chance for financing renewable electricity?. Energy Policy, 2008, 36, 1436-1447.	8.8	30
59	Photovoltaics and renewable energies in Europe. Renewable and Sustainable Energy Reviews, 2007, 11, 1414-1437.	16.4	155
60	Challenges to Realise 1% Electricity from Photovoltaic Solar Systems in the European Union by 2020. , 2006, , .		2
61	European Photovoltaics in world wide comparison. Journal of Non-Crystalline Solids, 2006, 352, 1922-1927.	3.1	21
62	EU renewables. Refocus, 2005, 6, 58-60.	0.2	4
63	R&D roadmap for PV. Thin Solid Films, 2004, 451-452, 448-454.	1.8	21
64	Changes in spectral response with temperature and irradiance intensity. Thin Solid Films, 2004, 451-452, 145-151.	1.8	18
65	Status of thin film solar cells in research, production and the market. Solar Energy, 2004, 77, 667-678.	6.1	56
66	Progress of electricity from biomass, wind and photovoltaics in the European Union. Renewable and Sustainable Energy Reviews, 2004, 8, 157-182.	16.4	48
67	ZnSe buffer prepared by iodine-enhanced chemical vapour deposition for Cu(In,Ga)(Se,S)-based solar cells. Solar Energy Materials and Solar Cells, 2003, 75, 1-8.	6.2	3
68	Temperature dependence of the exciton gap in monocrystalline CuGaSe2. Journal of Physics Condensed Matter, 2003, 15, 6219-6227.	1.8	9
69	High-resolution work function imaging of single grains of semiconductor surfaces. Applied Physics Letters, 2002, 80, 2979-2981.	3.3	145
70	Contribution of the ZnSe/CuGaSe2 heterojunction in photovoltaic performances of chalcopyrite-based solar cells. Thin Solid Films, 2002, 403-404, 344-348.	1.8	9
71	Investigations of atomic diffusion at CIGSSe/ZnSe interfaces with heavy ion elastic recoil detection analysis (HI-ERDA). Thin Solid Films, 2002, 403-404, 432-437.	1.8	6
72	Photoluminescence and sub band gap absorption of CuGaSe2 thin films. Thin Solid Films, 2002, 403-404, 495-499.	1.8	23

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73	Kelvin probe force microscopy for the characterization of semiconductor surfaces in chalcopyrite solar cells. Surface Science, 2001, 482-485, 1362-1367.	1.9	13
74	Characterization of the CuGaSe₂/ZnSe Interface Using Kelvin Probe Force Microscopy. Materials Research Society Symposia Proceedings, 2001, 668, 1.	0.1	9
75	CVD of CuGaSe2 for thin film solar cells employing two binary sources. Thin Solid Films, 2001, 387, 63-66.	1.8	27
76	CVD of CuGaSe2 for thin film solar cells with various transport agents. Solar Energy Materials and Solar Cells, 2001, 67, 105-112.	6.2	17
77	Structural Properties and Growth Mechanism of CuGaSe₂ Thin Films for Solar Cells Grown by Two-Source CVD. Solid State Phenomena, 2001, 80-81, 275-280.	0.3	1
78	Kelvin probe force microscopy in ultra high vacuum using amplitude modulation detection of the electrostatic forces. Applied Surface Science, 2000, 157, 263-268.	6.1	102
79	Structural analysis of Cu 1â^'x Ag x GaSe 2 bulk materials and thin films. Thin Solid Films, 2000, 361-362, 130-134.	1.8	16
80	ZnSe thin films grown by chemical vapour deposition for application as buffer layer in CIGSS solar cells. Thin Solid Films, 2000, 361-362, 172-176.	1.8	56
81	Processes for chalcopyrite-based solar cells. Thin Solid Films, 2000, 361-362, 533-539.	1.8	26
82	Theoretical Model and Device Performance of CuInS2Thin Film Solar Cell. Japanese Journal of Applied Physics, 2000, 39, 126-136.	1.5	13
83	Preparation of CuInS₂ Thin Films by Sequential Evaporation of In₂S₃ and CuS. Solid State Phenomena, 1999, 67-68, 367-372.	0.3	2
84	Stoichiometry and impurity concentrations in IIâ€"VI compounds measured by elastic recoil detection analysis (ERDA). Journal of Crystal Growth, 1999, 197, 571-575.	1.5	1
85	Ag-doped CuGaSe2 as a precursor for thin film solar cells. Journal of Crystal Growth, 1999, 198-199, 1190-1195.	1.5	8
86	High-sensitivity quantitative Kelvin probe microscopy by noncontact ultra-high-vacuum atomic force microscopy. Applied Physics Letters, 1999, 75, 286-288.	3.3	247
87	A New Approach to Grow Polycrystalline CuGaSe2Thin Films: Chemical Vapor Deposition with I2as Transport Agent. Japanese Journal of Applied Physics, 1998, 37, 1617-1621.	1.5	11
88	Properties of CuInS2 thin films grown by a two-step process without H2S. Solar Energy Materials and Solar Cells, 1997, 49, 349-356.	6.2	50
89	Polycrystalline CuGaSe2 Thin Films Growth by CVD with I2 as Transport Agent. , 1997, , .		0
90	Influence of KCN treatment on CuInS2 thin films. Applied Surface Science, 1996, 92, 232-236.	6.1	56

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91	CuIn(SxSe$_{{f 1-}inmb{x}}$)$_{f 2}$ Thin Films by Sulfurization. Japanese Journal of Applied Physics, 1995, 34, 4159-4162.	1.5	4
92	MoS₂, MoSe₂, WS₂ and WSe₂ Thin Films for Photovoltaics. Solid State Phenomena, 1994, 37-38, 479-484.	0.3	47
93	$f In_{2}O_{3}/CdS/CuInS_{2}$ Thin-Film Solar Cell with 9.7% Efficiency. Japanese Journal of Applied Physics, 1994, 33, L1775-L1777.	1.5	79
94	WS2 thin films prepared by sulphurization. Applied Surface Science, 1993, 70-71, 731-736.	6.1	33
95	MoS2 thin films prepared by sulphurization. Applied Surface Science, 1993, 65-66, 465-472.	6.1	33
96	WSe2 thin films prepared by soft selenization. Thin Solid Films, 1991, 200, 157-164.	1.8	43
97	DIFFUSION LENGTH MEASUREMENTS OF HETEROJUNCTION THIN FILMS BY JUNCTION-EBIC. European Physical Journal Special Topics, 1991, 01, C6-131-C6-136.	0.2	0
98	Composition and morphology of MoSe2 thin films. Thin Solid Films, 1990, 189, 339-345.	1.8	60
99	Recent Renewable Energy Cost and Performance Parameters. , 0, , 1001-1022.		0
100	WS/sub 2/ thin films a new candidate for solar cells. , 0, , .		4