

John M Walls

List of Publications by Year in descending order

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154
papers

3,138
citations

172386

29
h-index

197736

49
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156
all docs

156
docs citations

156
times ranked

2654
citing authors

#	ARTICLE	IF	CITATIONS
1	An XPS study of ion-induced compositional changes with group II and group IV compounds. <i>Applications of Surface Science</i> , 1983, 15, 224-237.	1.0	197
2	Polycrystalline CdSeTe/CdTe Absorber Cells With 28 mA/cm ² Short-Circuit Current. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 310-314.	1.5	175
3	Understanding the role of selenium in defect passivation for highly efficient selenium-alloyed cadmium telluride solar cells. <i>Nature Energy</i> , 2019, 4, 504-511.	19.8	145
4	Polycrystalline CdTe photovoltaics with efficiency over 18% through improved absorber passivation and current collection. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 9-18.	3.0	126
5	The development of a general three-dimensional surface under ion bombardment. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1980, 42, 235-248.	0.7	91
6	The structural properties of CdS deposited by chemical bath deposition and pulsed direct current magnetron sputtering. <i>Thin Solid Films</i> , 2015, 582, 323-327.	0.8	82
7	Scalable Deposition of High-Efficiency Perovskite Solar Cells by Spray-Coating. <i>ACS Applied Energy Materials</i> , 2018, 1, 1853-1857.	2.5	78
8	Composition-Depth profiling and interface analysis of surface coatings using ball cratering and the scanning auger microprobe. <i>Surface and Interface Analysis</i> , 1979, 1, 204-210.	0.8	75
9	Effect of CdCl ₂ passivation treatment on microstructure and performance of CdSeTe/CdTe thin-film photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 259-265.	3.0	71
10	The roles of ZnTe buffer layers on CdTe solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 203-210.	3.0	67
11	The Effect of Cadmium Chloride Treatment on Close-Spaced Sublimated Cadmium Telluride Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2013, 3, 1361-1366.	1.5	66
12	Multilayer Broadband Antireflective Coatings for More Efficient Thin Film CdTe Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 452-456.	1.5	60
13	Studies of the composition, ion-induced reduction and preferential sputtering of anodic oxide films on Hg _{0.8} Cd _{0.2} Te by XPS. <i>Surface Science</i> , 1983, 135, 225-242.	0.8	57
14	Thin film thickness measurements using Scanning White Light Interferometry. <i>Thin Solid Films</i> , 2014, 550, 10-16.	0.8	57
15	Electrodeposition of CdTe thin films using nitrate precursor for applications in solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3119-3128.	1.1	57
16	Surface morphology of Si(100), GaAs(100) and InP(100) following O ₂ ⁺ and Cs ⁺ ion bombardment. <i>Vacuum</i> , 1984, 34, 145-151.	1.6	52
17	Development of ZnTe as a back contact material for thin film cadmium telluride solar cells. <i>Vacuum</i> , 2017, 139, 159-163.	1.6	52
18	Improved sputter-depth profiles using two ion guns. <i>Applications of Surface Science</i> , 1980, 5, 103-106.	1.0	48

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19	The erosion of amorphous and crystalline surfaces by ion bombardment. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1981, 44, 879-893.	0.7	48
20	Identification of critical stacking faults in thin-film CdTe solar cells. Applied Physics Letters, 2014, 105, .	1.5	48
21	Ion trajectories in the field-ion microscope. Journal Physics D: Applied Physics, 1978, 11, 409-419.	1.3	47
22	An XPS study of ion-induced dissociation on metal carbonate surfaces. Vacuum, 1981, 31, 513-517.	1.6	44
23	The performance and durability of single-layer sol-gel anti-reflection coatings applied to solar module cover glass. Surface and Coatings Technology, 2019, 358, 76-83.	2.2	42
24	Hydrazine-Free Solution-Deposited $\text{CuIn}(\text{S,Se})_2$ Solar Cells by Spray Deposition of Metal Chalcogenides. ACS Applied Materials & Interfaces, 2016, 8, 11893-11897.	4.0	38
25	Solution processing of $\text{CuIn}(\text{S,Se})_2$ and $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ thin film solar cells using metal chalcogenide precursors. Thin Solid Films, 2017, 633, 76-80.	0.8	34
26	High rate deposition of thin film cadmium sulphide by pulsed direct current magnetron sputtering. Thin Solid Films, 2015, 574, 43-51.	0.8	33
27	Analysis and optimisation of the glass/TCO/MZO stack for thin film CdTe solar cells. Solar Energy Materials and Solar Cells, 2018, 187, 15-22.	3.0	33
28	The activation of thin film CdTe solar cells using alternative chlorine containing compounds. Thin Solid Films, 2015, 582, 115-119.	0.8	30
29	The development of surface topography during depth profiling in auger electron spectroscopy. Surface Science, 1979, 80, 557-565.	0.8	29
30	Evolution of oxygenated cadmium sulfide (CdS:O) during high-temperature CdTe solar cell fabrication. Solar Energy Materials and Solar Cells, 2016, 157, 276-285.	3.0	28
31	Testing the Durability of Anti-Soiling Coatings for Solar Cover Glass by Outdoor Exposure in Denmark. Energies, 2020, 13, 299.	1.6	27
32	Atmospheric-pressure plasma surface activation for solution processed photovoltaic devices. Solar Energy, 2017, 146, 287-297.	2.9	26
33	CdCl_2 passivation of polycrystalline CdMgTe and CdZnTe absorbers for tandem photovoltaic cells. Journal of Applied Physics, 2018, 123, .	1.1	26
34	Degradation of Mg-doped zinc oxide buffer layers in thin film CdTe solar cells. Thin Solid Films, 2019, 691, 137556.	0.8	25
35	Artificial linear brush abrasion of coatings for photovoltaic module first-surfaces. Solar Energy Materials and Solar Cells, 2021, 219, 110757.	3.0	25
36	The preparation of field electron/field-ion emitters by ion etching. Vacuum, 1974, 24, 475-479.	1.6	24

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37	The projection geometry of the field-ion image. <i>Surface Science</i> , 1978, 75, 129-140.	0.8	24
38	Modeling evaporation, ion-beam assist, and magnetron sputtering of thin metal films over realistic time scales. <i>Physical Review B</i> , 2012, 86, .	1.1	24
39	Solution-processed CuIn(S,Se) 2 absorber layers for application in thin film solar cells. <i>Thin Solid Films</i> , 2015, 582, 31-34.	0.8	24
40	Deposition and application of a MoN back contact diffusion barrier yielding a 12.0% efficiency solution-processed CIGS solar cell using an amine-thiol solvent system. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7042-7052.	5.2	24
41	The effect of temperature on resistive ZnO layers and the performance of thin film CdTe solar cells. <i>Thin Solid Films</i> , 2017, 633, 92-96.	0.8	23
42	Magnification in the field-ion microscope. <i>Journal Physics D: Applied Physics</i> , 1979, 12, 657-667.	1.3	22
43	Deterministic models of ion erosion, reflection and redeposition. <i>Vacuum</i> , 1984, 34, 175-180.	1.6	22
44	Measurement of thin film interfacial surface roughness by coherence scanning interferometry. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	22
45	Field-ion microscope observations of helium ion bombardment damage in tungsten. <i>Surface Science</i> , 1976, 61, 419-434.	0.8	21
46	The effect of cadmium chloride treatment on close spaced sublimated cadmium telluride thin film solar cells. , 2012, , .		21
47	Modelling the growth of ZnO thin films by PVD methods and the effects of post-annealing. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 135002.	0.7	21
48	Comparison of wear behaviour of single- and multilayer coated carbide cutting tools. <i>Metals Technology</i> , 1980, 7, 293-299.	0.3	20
49	The application of taper-sectioning techniques for depth profiling using Auger electron spectroscopy. <i>Applications of Surface Science</i> , 1983, 15, 93-107.	1.0	20
50	Degradation of Hydrophobic, Anti-Soiling Coatings for Solar Module Cover Glass. <i>Energies</i> , 2020, 13, 3811.	1.6	20
51	The effect of a post-activation annealing treatment on thin film cdte device performance. , 2015, , .		19
52	Chlorine activated stacking fault removal mechanism in thin film CdTe solar cells: the missing piece. <i>Nature Communications</i> , 2021, 12, 4938.	5.8	19
53	The development of surface shape during sputter-depth profiling in Auger electron spectroscopy. <i>Surface and Interface Analysis</i> , 1980, 2, 115-119.	0.8	18
54	Pinhole free thin film CdS deposited by chemical bath using a substrate reactive plasma treatment. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 011202.	0.8	17

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55	Sodium doping of solution-processed amine-thiol based CIGS solar cells by thermal evaporation of NaCl. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 546-557.	4.4	17
56	The structure and topographical modification of surfaces during depth profiling. <i>Thin Solid Films</i> , 1979, 57, 201-207.	0.8	16
57	The development of surface topography using two ion beams. <i>Journal of Materials Science</i> , 1982, 17, 1689-1699.	1.7	16
58	High quality aluminium doped zinc oxide target synthesis from nanoparticulate powder and characterisation of sputtered thin films. <i>Thin Solid Films</i> , 2014, 566, 108-114.	0.8	16
59	Structural and chemical evolution of the CdS:O window layer during individual CdTe solar cell processing steps. <i>Solar Energy</i> , 2018, 159, 940-946.	2.9	16
60	Surface morphology during ion etching The influence of redeposition. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983, 47, 453-481.	0.7	15
61	Enhancement of photovoltaic efficiency in $\text{CdSe}_x\text{Te}_{1-x}$ (where $0 \leq x \leq 1$): insights from density functional theory. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 125702.	0.7	15
62	Selenium passivates grain boundaries in alloyed CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022, 238, 111595.	3.0	15
63	A combined fim, aes and LEED study of the structure and composition of ion bombarded tungsten surfaces. <i>Surface Science</i> , 1975, 50, 360-378.	0.8	14
64	A comparison of vacuum-evaporated and ion-plated thin films using Auger electron spectroscopy. <i>Thin Solid Films</i> , 1978, 54, 303-308.	0.8	14
65	Quantitative secondary neutral mass spectroscopy of thin films. <i>Thin Solid Films</i> , 1991, 200, 293-300.	0.8	14
66	Understanding the Copassivation Effect of Cl and Se for CdTe Grain Boundaries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35086-35096.	4.0	14
67	Observations of sputtering damage using the field-ion microscope. <i>Vacuum</i> , 1974, 24, 471-474.	1.6	13
68	Effect of the cadmium chloride treatment on RF sputtered $\text{Cd}_{0.6}\text{Zn}_{0.4}\text{Te}$ films for application in multijunction solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	0.9	13
69	The application of surface analytical techniques to thin films and surface coatings. <i>Thin Solid Films</i> , 1981, 80, 213-220.	0.8	12
70	Summary Abstract: Surface topography of electronic materials following oxygen and cesium ion bombardment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1983, 1, 621-622.	0.9	12
71	Sample rocking and rotation in ion beam etching. <i>Journal of Materials Science</i> , 1986, 21, 123-130.	1.7	12
72	Cupric Oxide-based p-type Transparent Conductors. <i>Energy Procedia</i> , 2014, 60, 129-134.	1.8	12

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73	The shape of field-ion emitters. <i>Journal Physics D: Applied Physics</i> , 1979, 12, 1589-1595.	1.3	11
74	Cadmium Chloride Assisted Re-Crystallisation of CdTe: The Effect on the CdS Window Layer. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1738, 7.	0.1	11
75	3D Distributions of Chlorine and Sulphur Impurities in a Thin-Film Cadmium Telluride Solar Cell. <i>MRS Advances</i> , 2018, 3, 3287-3292.	0.5	11
76	Surface morphology during ion etching The influence of redeposition. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983, 47, 453-481.	0.6	11
77	An XPS study of the angular dependence of preferential sputtering and ion-induced reduction in lead oxide-containing glasses. <i>Vacuum</i> , 1984, 34, 659-662.	1.6	10
78	High Mobility Titanium-doped Indium Oxide for Use in Tandem Solar Cells Deposited via Pulsed DC Magnetron Sputtering. <i>Energy Procedia</i> , 2014, 60, 148-155.	1.8	10
79	High-Efficiency Nanoparticle Solution-Processed Cu(In,Ga)(S,Se) ₂ Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 288-292.	1.5	10
80	Ring counting in field-ion micrographs. <i>Journal of Microscopy</i> , 1978, 113, 291-299.	0.8	9
81	Understanding the Role of CdTe in Polycrystalline CdSe _x Te _{1-x} /CdTe Graded Bilayer Photovoltaic Devices. <i>Solar Rrl</i> , 2021, 5, .	3.1	9
82	Deposition of cupric oxide thin films by spin coating. <i>Materials Research Innovations</i> , 2014, 18, 95-98.	1.0	8
83	Inkjet and laser hybrid processing for series interconnection of thin film photovoltaics. <i>Materials Research Innovations</i> , 2014, 18, 509-514.	1.0	8
84	Refractive index determination by coherence scanning interferometry. <i>Applied Optics</i> , 2016, 55, 4253.	2.1	8
85	Optical Optimization of Perovskite Solar Cell Structure for Maximum Current Collection. <i>Energy Procedia</i> , 2016, 102, 11-18.	1.8	8
86	Optical optimization of high resistance transparent layers in thin film cadmium telluride solar cells. <i>Vacuum</i> , 2017, 139, 196-201.	1.6	8
87	Water based spray pyrolysis of metal-oxide solutions for Cu ₂ ZnSn(S,Se) ₄ solar cells using low toxicity amine/thiol complexants. <i>Thin Solid Films</i> , 2019, 669, 588-594.	0.8	8
88	A moiré interpretation of field-ion microscopy. <i>Philosophical Magazine and Journal</i> , 1973, 27, 915-927.	1.8	7
89	The depth resolution of composition-depth profiles obtained by ball-cratering and Auger electron spectroscopy. <i>Vacuum</i> , 1981, 31, 625-629.	1.6	7
90	Closed field magnetron sputtering: new generation sputtering process for optical coatings. , 2008, , .		7

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91	One step thin-film PV interconnection process using laser and inkjet. , 2013, , .		7
92	Effect of varying deposition and substrate temperature on sublimated CdTe thin-film photovoltaics. , 2016, , .		7
93	High rate deposition of thin film CdTe solar cells by pulsed dc magnetron sputtering. MRS Advances, 2016, 1, 917-922.	0.5	7
94	Magnesium-doped Zinc Oxide as a High Resistance Transparent Layer for thin film CdS/CdTe solar cells. , 2017, , .		7
95	Chlorine passivation of grain boundaries in cadmium telluride solar cells. Physical Review Materials, 2021, 5, .	0.9	7
96	Sputter-depth profiling in AES: Dependence of depth resolution on electron and ion beam geometry. Surface and Interface Analysis, 1983, 5, 71-76.	0.8	6
97	Room temperature surface passivation of silicon for screen printed c-Si solar cells by HiTUS reactive sputter deposition. Applied Surface Science, 2014, 301, 51-55.	3.1	6
98	Structural and chemical characterization of the back contact region in high efficiency CdTe solar cells. , 2015, , .		6
99	An innovative approach for fabrication of Cu ₂ ZnSnSe ₄ absorber layers using solutions of elemental metal powders. Thin Solid Films, 2017, 633, 151-155.	0.8	6
100	CdS barrier to minimize Zn loss during CdCl ₂ treatment of Cd-Zn-Te absorbers. Solar Energy, 2018, 173, 1181-1188.	2.9	6
101	A specimen temperature controller for field emission and field-ion microscopy. Journal of Physics E: Scientific Instruments, 1976, 9, 96-97.	0.7	5
102	Deposition of multilayer optical coatings using closed-field magnetron sputtering. , 2006, , .		5
103	Modeling evaporation, ion-beam assist, and magnetron sputtering of TiO ₂ thin films over realistic timescales. Journal of Materials Research, 2012, 27, 799-805.	1.2	5
104	Cadmium Chloride Assisted Re-Crystallization of CdTe: The Effect of Varying the Annealing Time. Materials Research Society Symposia Proceedings, 2014, 1638, 1.	0.1	5
105	A tunable amorphous p-type ternary oxide system: The highly mismatched alloy of copper tin oxide. Journal of Applied Physics, 2015, 118, 105702.	1.1	5
106	High temperature stability of broadband Anti-Reflection coatings on soda lime glass for solar modules. , 2015, , .		5
107	The development of thin film metrology by coherence scanning interferometry. Proceedings of SPIE, 2016, , .	0.8	5
108	Activation of Thin Film CdTe Solar Cells Using a Cadmium Bromide Treatment. , 2018, , .		5

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109	Zone plates and field ion microscopy. Applied Physics Letters, 1973, 23, 161-163.	1.5	4
110	The optimum ion species for sputter-cleaning or ion profiling tungsten surfaces. Surface Technology, 1976, 4, 255-268.	0.4	4
111	The depth of sputtering damage in tungsten by field-ion microscopy. Radiation Effects, 1979, 45, 111-118.	0.4	4
112	Characterization of Thin Film CdTe photovoltaic materials deposited by high plasma density magnetron sputtering. Materials Research Society Symposia Proceedings, 2011, 1323, 145.	0.1	4
113	Cadmium chloride assisted re-crystallization of CdTe: The effect of the annealing temperature. , 2013, , .		4
114	Internal strain analysis of CdTe thin films deposited by pulsed DC magnetron sputtering. , 2015, , .		4
115	Advanced co-sublimation hardware for deposition of graded ternary alloys in thin-film applications. , 2018, , .		4
116	Modeling the Sputter Deposition of Thin Film Photovoltaics using Long Time Scale Dynamics Techniques. Materials Research Society Symposia Proceedings, 2011, 1327, 80401.	0.1	3
117	Chemical bath deposition of thin film CdSe layers for use in Se alloyed CdTe solar cells. , 2019, , .		3
118	THE EFFECT OF ANNEALING PRESSURE AND TIME ON THE CRYSTALLINITY OF CZTSe. Surface Review and Letters, 2019, 26, 1850151.	0.5	3
119	Combined Anti-soiling and Anti-reflection Coatings for Solar Modules. , 2021, , .		3
120	Abrasion resistance of hydrophobic, anti-soiling coatings for solar cover glass. , 2020, , .		3
121	Field-ion Microscope Observations of Sputtered Tungsten Surfaces. Japanese Journal of Applied Physics, 1974, 13, 355.	0.8	2
122	Optical coatings and thin films for display technologies using closed-field magnetron sputtering. , 2004, , .		2
123	Aluminium-doped zinc oxide deposited by ultrasonic spray pyrolysis for thin film solar cell applications. , 2014, , .		2
124	Comparison of DC and RF sputtered aluminium-doped zinc oxide for photovoltaic applications. , 2015, , .		2
125	Large Area 3D Elemental Mapping of a MgZnO/CdTe Solar Cell with Correlative EBSD Measurements. , 2018, , .		2
126	Optimisation of the CZTSe thin film composition obtained by a sequential electrodeposition process. Surface Engineering, 2019, 35, 854-860.	1.1	2

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127	Sputtered Aluminum Oxide and p ⁺ Amorphous Silicon Back-Contact for Improved Hole Extraction in Polycrystalline CdSe _x Te _{1-x} and CdTe Photovoltaics. , 2019, , .		2
128	Quantitative analysis of field-ion micrographs using moiré techniques. Surface Science, 1977, 67, 299-316.	0.8	1
129	Surface analytical techniques: their developing role in the characterisation of surfaces, thin films and surface coatings. Transactions of the Institute of Metal Finishing, 1984, 62, 163-168.	0.6	1
130	Metrology of silicon photovoltaic cells using Coherence Correlation Interferometry. , 2011, , .		1
131	Characterization of contacts produced using a laser ablation/inkjet one step interconnect process for thin film photovoltaics. , 2013, , .		1
132	Near infrared laser CdCl ₂ heat treatment for CdTe solar cells. , 2016, , .		1
133	The microstructure of thin film CdTe absorber layers deposited by pulsed dc magnetron sputtering. , 2016, , .		1
134	Electronic properties of solution-processed Cu(In,Ga)(S,Se) ₂ solar cells using metal chalcogenides and amine-thiol solvent mixtures. , 2018, , .		1
135	Defect Tolerance in as-deposited Selenium-alloyed Cadmium Telluride Solar Cells. , 2018, , .		1
136	High Rate Deposition of CdSe Thin Films by Pulsed DC Magnetron Sputtering. , 2020, , .		1
137	MOCVD of II-VI HRT/Emitters for Voc Improvements to CdTe Solar Cells. Coatings, 2022, 12, 261.	1.2	1
138	Surface analysis. Analytical Proceedings, 1983, 20, 476.	0.4	0
139	<title>Techniques In Surface Microscopy And Analysis</title>. , 1983, , .		0
140	High-rate deposition of optical coatings by closed-field magnetron sputtering. , 2005, 5963, 355.		0
141	Application of closed field magnetron sputtering deposition in thin film photovoltaics. Proceedings of SPIE, 2009, , .	0.8	0
142	Combined thin-film thickness measurement and surface metrology of photovoltaic thin films using Coherence Correlation Interferometry. , 2012, , .		0
143	Atomistic modelling of titania grown using PVD methods. , 2012, , .		0
144	Cupric Oxide Thin Films for Photovoltaic Applications. Materials Research Society Symposia Proceedings, 2013, 1538, 185-190.	0.1	0

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145	Studies of laser generated debris in crystalline silicon solar cells. , 2013, , .		0
146	The effect of cadmium chloride treatment on close spaced sublimated cadmium telluride thin film solar cells. , 2013, , .		0
147	Solution-deposited $\text{CuIn}(\text{S},\text{Se})_2$ absorber layers from metal chalcogenides. , 2015, , .		0
148	Analysis and comparison of different selenization routes for nanoparticle ink deposited $\text{Cu}(\text{In}^{1-x}\text{Ga}^x)(\text{Se}^y\text{S}^{1-y})_2$ solar cells. , 2016, , .		0
149	Characterization of CdTe Photovoltaic Devices Passivated Using Hydrogen Plasma. , 2017, , .		0
150	Exploring metastable defect behavior in solution-processed antimony doped CIGS thin film solar cells. , 2018, , .		0
151	Characterization of Sub-Bandgap Energy States in $\text{CuIn}_x\text{Ga}_{(1-x)}\text{Se}_2$ and Transparent Conducting Oxides with Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2018, 24, 456-457.	0.2	0
152	Characterization of Sub-Bandgap Plasmon Excitations in Transparent Conducting Oxides with Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2019, 25, 600-601.	0.2	0
153	Analysis of MZO/CdTe photovoltaic device treated with cadmium bromide. , 2019, , .		0
154	Comparison of Cadmium Selenide Thin Films Deposited by Chemical Bath and Pulsed DC Sputtering for use in Cadmium Telluride Devices. , 2020, , .		0