

# Alessandro Romeo

## List of Publications by Year in descending order

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85  
papers

3,262  
citations

172457

29  
h-index

149698

56  
g-index

88  
all docs

88  
docs citations

88  
times ranked

3029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of thin-film Cu(In,Ga)Se <sub>2</sub> and CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2004, 12, 93-111.	8.1	336
2	Flexible CIGS, CdTe and a-Si:H based thin film solar cells: A review. Progress in Materials Science, 2020, 110, 100619.	32.8	270
3	CdTe/CdS solar cells on flexible substrates. Solar Energy, 2004, 77, 831-838.	6.1	175
4	A highly efficient and stable CdTe/CdS thin film solar cell. Solar Energy Materials and Solar Cells, 1999, 58, 209-218.	6.2	172
5	Development of efficient and stable back contacts on CdTe/CdS solar cells. Thin Solid Films, 2001, 387, 151-154.	1.8	143
6	An innovative process suitable to produce high-efficiency CdTe/CdS thin-film modules. Solar Energy Materials and Solar Cells, 2010, 94, 2-7.	6.2	118
7	Structural and chemical investigations of CBD- and PVD-CdS buffer layers and interfaces in Cu(In,Ga)Se <sub>2</sub> -based thin film solar cells. Thin Solid Films, 2005, 480-481, 118-123.	1.8	111
8	CdTe-Based Thin Film Solar Cells: Past, Present and Future. Energies, 2021, 14, 1684.	3.1	100
9	Recent developments in evaporated CdTe solar cells. Solar Energy Materials and Solar Cells, 2006, 90, 664-677.	6.2	99
10	Stability aspects in CdTe/CdS solar cells. Thin Solid Films, 2004, 451-452, 536-543.	1.8	94
11	Influence of CdS growth process on structural and photovoltaic properties of CdTe/CdS solar cells. Solar Energy Materials and Solar Cells, 2001, 67, 311-321.	6.2	89
12	Recrystallization in CdTe/CdS. Thin Solid Films, 2000, 361-362, 420-425.	1.8	85
13	CdTe solar cell in a novel configuration. Progress in Photovoltaics: Research and Applications, 2004, 12, 33-38.	8.1	83
14	High-efficiency flexible CdTe solar cells on polymer substrates. Solar Energy Materials and Solar Cells, 2006, 90, 3407-3415.	6.2	79
15	Structural and chemical interface characterization of CdTe solar cells by transmission electron microscopy. Thin Solid Films, 2003, 431-432, 262-266.	1.8	76
16	Flexible CdTe solar cells on polymer films. Progress in Photovoltaics: Research and Applications, 2001, 9, 211-215.	8.1	75
17	A study of the back contacts on CdTe/CdS solar cells. Thin Solid Films, 2000, 361-362, 463-467.	1.8	71
18	Influence of CdTe thickness on structural and electrical properties of CdTe/CdS solar cells. Thin Solid Films, 2013, 535, 257-260.	1.8	51

#	ARTICLE	IF	CITATIONS
19	SnS Thin Film Solar Cells: Perspectives and Limitations. <i>Coatings</i> , 2017, 7, 34.	2.6	50
20	Bifacial configurations for CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1388-1391.	6.2	48
21	Analysis of Bulk and Interface Phenomena in CdTe/CdS Thin-Film Solar Cells. <i>Journal of Materials Science</i> , 2004, 12, 259-266.	1.2	47
22	Singlet and Triplet State Transitions of Carotenoids in the Antenna Complexes of Higher-Plant Photosystem I. <i>Biochemistry</i> , 2007, 46, 3846-3855.	2.5	41
23	Analysis of a novel CuCl <sub>2</sub> back contact process for improved stability in CdTe solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 706-715.	8.1	40
24	Comparison of high efficiency flexible CdTe solar cells on different substrates at low temperature deposition. <i>Solar Energy</i> , 2016, 139, 13-18.	6.1	39
25	Improved stability of CdTe solar cells by absorber surface etching. <i>Solar Energy Materials and Solar Cells</i> , 2017, 162, 127-133.	6.2	39
26	Characterisation of SnSe thin films fabricated by chemical molecular beam deposition for use in thin film solar cells. <i>Solar Energy</i> , 2018, 159, 834-840.	6.1	38
27	Low substrate temperature CdTe solar cells: A review. <i>Solar Energy</i> , 2018, 175, 9-15.	6.1	37
28	Study of CSS- and HVE-CdTe by different recrystallization processes. <i>Thin Solid Films</i> , 2009, 517, 2132-2135.	1.8	32
29	Application of high mobility transparent conductors to enhance long wavelength transparency of the intermediate solar cell in multi-junction solar cells. <i>Thin Solid Films</i> , 2009, 517, 2340-2343.	1.8	31
30	How the amount of copper influences the formation and stability of defects in CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 204, 110228.	6.2	28
31	Study of difluorochloromethane activation treatment on low substrate temperature deposited CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 112, 190-195.	6.2	27
32	Raman Spectroscopy and <i>In Situ</i> XRD Probing of the Thermal Decomposition of Sb <sub>2</sub> Se <sub>3</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19858-19865.	3.1	27
33	The second generation of CdTe and CuInGaSe <sub>2</sub> thin film PV modules. <i>Crystal Research and Technology</i> , 2011, 46, 857-864.	1.3	25
34	CdTe solar cells: technology, operation and reliability. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 333002.	2.8	25
35	Novel functionalization strategies of polymeric nanoparticles as carriers for brain medications. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 847-858.	4.0	24
36	Study of MgCl <sub>2</sub> activation treatment on the defects of CdTe solar cells by capacitance-voltage, drive level capacitance profiling and admittance spectroscopy techniques. <i>Thin Solid Films</i> , 2017, 633, 97-100.	1.8	24

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37	Semisynthetic and Enzyme-Mediated Conjugate Preparations Illuminate the Ubiquitination-Dependent Aggregation of Tau Protein. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6607-6611.	13.8	24
38	Effects of post-deposition annealing and copper inclusion in superstrate Sb <sub>2</sub> Se <sub>3</sub> based solar cells by thermal evaporation. <i>Solar Energy</i> , 2019, 193, 452-457.	6.1	22
39	Effects of activation treatment on the electrical properties of low temperature grown CdTe devices. <i>Thin Solid Films</i> , 2013, 535, 253-256.	1.8	21
40	Voltage Dependent Carrier Collection in CdTe Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2001, 668, 1.	0.1	19
41	IBIC analysis of CdTe/CdS solar cells. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 2181-2184.	1.4	19
42	Last Progress in CdTe/CdS Thin Film Solar Cell Fabrication Process. <i>Energy Procedia</i> , 2014, 57, 65-72.	1.8	19
43	Analysis of magnesium zinc oxide layers for high efficiency CdTe devices. <i>Thin Solid Films</i> , 2019, 672, 22-25.	1.8	19
44	A new method for Cd <sub>1-x</sub> Se <sub>x</sub> band grading for high efficiency thin-absorber CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 226, 111081.	6.2	17
45	High efficiency Cu(In,Ga)Se <sub>2</sub> /CdS thin film solar cells obtained with precursors sputtered from InSe, GaSe and Cu targets. <i>Thin Solid Films</i> , 2013, 535, 88-91.	1.8	16
46	Improving the Cellular Uptake of Biomimetic Magnetic Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 766.	4.1	15
47	Analysis of the influence on the performance degradation of CdTe solar cells by the front contact. <i>Thin Solid Films</i> , 2017, 633, 101-105.	1.8	14
48	CdCl <sub>2</sub> activation treatment: A comprehensive study by monitoring the annealing temperature. <i>Thin Solid Films</i> , 2015, 582, 110-114.	1.8	13
49	Analysis of Se Co-evaporation and Post-selenization for Sb <sub>2</sub> Se <sub>3</sub> -Based Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 12479-12486.	5.1	13
50	Near Infrared Circularly Polarized Luminescence From Water Stable Organic Nanoparticles Containing a Chiral Yb(III) Complex. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	13
51	Superior stability of ultra thin CdTe solar cells with simple Cu/Au back contact. <i>Thin Solid Films</i> , 2015, 582, 105-109.	1.8	12
52	Encapsulation of Photosystem I in Organic Microparticles Increases Its Photochemical Activity and Stability for Ex Vivo Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10435-10444.	6.7	12
53	Dynamic molecular exchange and conformational transitions of alpha-synuclein at the nano-bio interface. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 206-216.	7.5	12
54	Influence of proton irradiation and development of flexible CdTe solar cells on polyimide. <i>Materials Research Society Symposia Proceedings</i> , 2001, 668, 1.	0.1	11

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55	Deep study of MgCl <sub>2</sub> as activator in CdS/CdTe solar cells. Solar Energy, 2017, 155, 620-626.	6.1	11
56	The inclusion into PLGA nanoparticles enables $\hat{\pm}$ -bisabolol to efficiently inhibit the human dendritic cell pro-inflammatory activity. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	8
57	Complexes of rare earth ions embedded in poly(lactic-co-glycolic acid) (PLGA) nanoparticles: Characterization and spectroscopic study. Optical Materials, 2019, 94, 249-256.	3.6	8
58	Effects of CdTe selenization on the electrical properties of the absorber for the fabrication of Cd <sub>1-x</sub> Se <sub>x</sub> /CdTe based solar cells. Solar Energy, 2021, 227, 8-12.	6.1	8
59	Study of spatially resolved impurity diffusion in CdTe solar cells using voltage dependent quantum efficiency. Thin Solid Films, 2003, 431-432, 421-425.	1.8	7
60	Magnesium-doped Zinc Oxide as a High Resistance Transparent Layer for thin film CdS/CdTe solar cells. , 2017, , .		7
61	A simple method for Ge incorporation to enhance performance of low temperature and non-vacuum based CZTSSe solar cells. Solar Energy, 2022, 236, 599-607.	6.1	7
62	Electrical characterization and aging of CdTe thin film solar cells with Bi<math>\text{In}</math>2</math>/Te<math>\text{In}</math>3</math> back contact. , 2013, , .		6
63	Influence of CdTe solar cell properties on stability at high temperatures. Microelectronics Reliability, 2020, 114, 113847.	1.7	6
64	Ozone at low concentrations does not affect motility and proliferation of cancer cells in vitro. European Journal of Histochemistry, 2020, 64, .	1.5	6
65	Ketamine nano-delivery based on poly-lactic-co-glycolic acid (PLGA) nanoparticles. Applied Nanoscience (Switzerland), 2018, 8, 655-663.	3.1	5
66	CIGS thin films prepared by sputtering and selenization by using In<math>\text{In}</math>2</math>Se<math>\text{In}</math>3</math>, Ga<math>\text{In}</math>2</math>Se<math>\text{In}</math>3</math> and Cu as sputtering targets. , 2010, , .		4
67	Etching effect of CdTe absorber on the stability of thin film solar cell devices. , 2013, , .		4
68	A study of SnS recrystallization by post deposition treatment. , 2016, , .		4
69	CdTe Solar Cells. , 2018, , 309-369.		4
70	Growth and characterization of Zn <sub>x</sub> Sn <sub>1-x</sub> Se films for use in thin film solar cells. Solar Energy, 2019, 193, 519-522.	6.1	4
71	Difluorochloromethane treated thin CdS buffer layers for improved CdTe solar cells. Thin Solid Films, 2019, 672, 7-13.	1.8	4
72	Cadmium telluride as a potential conversion surface. Journal of Applied Physics, 2021, 129, 045303.	2.5	3

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73	Analysis of the drying process for precursors of $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ layers by low cost non vacuum fabrication technique. <i>Solar Energy</i> , 2021, 224, 992-999.	6.1	3
74	High energy irradiation properties of CdTe/CdS solar cells. , 0, , .		2
75	SnS by Ionized Jet Deposition for photovoltaic applications. , 2017, , .		2
76	Semisynthetic and Enzyme-mediated Conjugate Preparations Illuminate the Ubiquitination-dependent Aggregation of Tau Protein. <i>Angewandte Chemie</i> , 2020, 132, 6669-6673.	2.0	2
77	Conductivity of $\text{Sb}_x\text{Se}_y$ films grown by CMBD from Sb and Se precursors for use in solar cells. <i>Solar Energy</i> , 2021, 230, 10-12.	6.1	2
78	A CdTe Thin Film Module Factory with a Novel Process. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1165, 1.	0.1	1
79	CdTe thin film solar cells by pulsed electron deposition. , 2016, , .		1
80	Comparison of $\text{MgCl}_2$ and $\text{CdCl}_2$ Activation Treatment for CDTE Solar Cells: Recrystallization and Defects. , 2017, , .		1
81	Reliability investigation on CdTe solar cells submitted to short-term thermal stress. <i>Microelectronics Reliability</i> , 2019, 100-101, 113490.	1.7	1
82	CdTe Thin Film Solar Cells: Present Status and Future Perspectives. , 2011, , .		0
83	Preface of E-MRS 2014 symposium A. <i>Thin Solid Films</i> , 2015, 582, 1.	1.8	0
84	Grain Segmentation in Atomic Force Microscopy for Thin-Film Deposition Quality Control. <i>Lecture Notes in Computer Science</i> , 2019, , 385-394.	1.3	0
85	CdTe and $\text{CuInGaSe}_2$ Thin-Film Solar Cells. <i>Springer Series in Materials Science</i> , 2020, , 197-217.	0.6	0