

Alessandro Cannavale

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,509
citations

21
h-index

38
g-index

54
ext. papers

1,759
ext. citations

7
avg, IF

5
L-index

#	Paper	IF	Citations
53	Durable superhydrophobic and antireflective surfaces by trimethylsilanized silica nanoparticles-based sol-gel processing. <i>Langmuir</i> , 2009 , 25, 6357-62	4	275
52	Forthcoming perspectives of photoelectrochromic devices: a critical review. <i>Energy and Environmental Science</i> , 2016 , 9, 2682-2719	35.4	103
51	Perovskite photovoltachromic cells for building integration. <i>Energy and Environmental Science</i> , 2015 , 8, 1578-1584	35.4	102
50	Ultrathin TiO(B) nanorods with superior lithium-ion storage performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1933-43	9.5	79
49	Multifunctional bioinspired sol-gel coatings for architectural glasses. <i>Building and Environment</i> , 2010 , 45, 1233-1243	6.5	66
48	Smart Electrochromic Windows to Enhance Building Energy Efficiency and Visual Comfort. <i>Energies</i> , 2020 , 13, 1449	3.1	65
47	High-speed flow of interacting organic polaritons. <i>Light: Science and Applications</i> , 2017 , 6, e16212	16.7	62
46	Building integration of semitransparent perovskite-based solar cells: Energy performance and visual comfort assessment. <i>Applied Energy</i> , 2017 , 194, 94-107	10.7	59
45	Optimal control and performance of photovoltachromic switchable glazing for building integration in temperate climates. <i>Applied Energy</i> , 2016 , 178, 943-961	10.7	56
44	Smart windows for building integration: a new architecture for photovoltachromic devices. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9290-7	9.5	46
43	Highly efficient smart photovoltachromic devices with tailored electrolyte composition. <i>Energy and Environmental Science</i> , 2011 , 4, 2567	35.4	44
42	Visual comfort assessment of smart photovoltachromic windows. <i>Energy and Buildings</i> , 2013 , 65, 137-145	10.7	40
41	Energy savings due to building integration of innovative solid-state electrochromic devices. <i>Applied Energy</i> , 2018 , 225, 975-985	10.7	40
40	Improving energy and visual performance in offices using building integrated perovskite-based solar cells: A case study in Southern Italy. <i>Applied Energy</i> , 2017 , 205, 834-846	10.7	37
39	Photovoltachromic device with a micropatterned bifunctional counter electrode. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2415-22	9.5	35
38	Smart windows for carbon neutral buildings: A life cycle approach. <i>Energy and Buildings</i> , 2018 , 165, 160-171	10.7	28
37	Room temperature processing for solid-state electrochromic devices on single substrate: From glass to flexible plastic. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 155, 411-420	6.4	27

36	Performance assessment of BIPV/T double-skin facade for various climate zones in Australia: Effects on energy consumption. <i>Solar Energy</i> , 2020 , 199, 377-399	6.8	26
35	Sustainable sound absorbers obtained from olive pruning wastes and chitosan binder. <i>Applied Acoustics</i> , 2018 , 141, 71-78	3.1	25
34	Room temperature Bloch surface wave polaritons. <i>Optics Letters</i> , 2014 , 39, 2068-71	3	24
33	Advanced processing and characterization of Nafion electrolyte films for solid-state electrochromic devices fabricated at room temperature on single substrate. <i>Solid State Ionics</i> , 2018 , 317, 46-52	3.3	21
32	Fully integrated electrochromic-OLED devices for highly transparent smart glasses. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7274-7284	7.1	21
31	Flexible AlN flags for efficient wind energy harvesting at ultralow cut-in wind speed. <i>RSC Advances</i> , 2015 , 5, 14047-14052	3.7	21
30	Numerical simulation study of BIPV/T double-skin facade for various climate zones in Australia: Effects on indoor thermal comfort. <i>Building Simulation</i> , 2019 , 12, 51-67	3.9	19
29	The Challenge for Building Integration of Highly Transparent Photovoltaics and Photoelectrochromic Devices. <i>Energies</i> , 2020 , 13, 1929	3.1	18
28	Nano-encapsulation of phase change materials: From design to thermal performance, simulations and toxicological assessment. <i>Energy and Buildings</i> , 2019 , 188-189, 1-11	7	18
27	Comparing energy performance of different semi-transparent, building-integrated photovoltaic cells applied to reference buildings. <i>Energy Procedia</i> , 2017 , 126, 219-226	2.3	17
26	Mid-Infrared Plasmonic Excitation in Indium Tin Oxide Microhole Arrays. <i>ACS Photonics</i> , 2018 , 5, 2431-2436	6.6	16
25	Chromogenic device for cystic fibrosis precocious diagnosis: A point of care tool for sweat test. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 474-480	8.5	14
24	Energetic and visual comfort implications of using perovskite-based building-integrated photovoltaic glazings. <i>Energy Procedia</i> , 2017 , 126, 636-643	2.3	12
23	Development, testing and evaluation of energy savings potentials of photovoltachromic windows in office buildings. A perspective study for Australian climates. <i>Solar Energy</i> , 2020 , 205, 358-371	6.8	12
22	A sensitivity analysis of design parameters of BIPV/T-DSF in relation to building energy and thermal comfort performances. <i>Journal of Building Engineering</i> , 2021 , 41, 102426	5.2	12
21	Innovative electrochromic devices: Energy savings and visual comfort effects. <i>Energy Procedia</i> , 2018 , 148, 900-907	2.3	10
20	Chromogenic Technologies for Energy Saving. <i>Clean Technologies</i> , 2020 , 2, 462-475	3.4	8
19	Bloch Surface Waves for MoS2 Emission Coupling and Polariton Systems. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1217	2.6	6

18	Effect of lithium intercalation on the photovoltaic performances of photovoltachromic cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 290-301	6.8	6
17	Nanomaterials and Smart Nanodevices for Modular Dry Constructions: The Project Easy House. <i>Procedia Engineering</i> , 2017 , 180, 704-714		5
16	Modeling of an Aerogel-Based Thermal Break for Super-Insulated Window Frames. <i>Buildings</i> , 2020 , 10, 60	3.2	4
15	3D Photoelectrode for Dye Solar Cells Realized by Laser Micromachining of Photosensitive Glass. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17100-17107	3.8	4
14	Optimization of Indoor Environment Quality for Hypermarket Workers: From Subjective Response to Objective Design Criteria. <i>Energy Procedia</i> , 2016 , 101, 272-279	2.3	4
13	Energy performance of building-integrated electrochromic and photovoltaic systems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 062004	0.4	4
12	Investigating the impact of electrochromic glazing on energy performance in hot arid climate using parametric design. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 062027	0.4	4
11	Sequential deposition of hybrid halide perovskite starting both from lead iodide and lead chloride on the most widely employed substrates. <i>Thin Solid Films</i> , 2018 , 657, 110-117	2.2	3
10	Energy and daylighting performance of building integrated spirooxazine photochromic films. <i>Solar Energy</i> , 2021 ,	6.8	3
9	Phase Change Material Integration in Building Envelopes in Different Building Types and Climates: Modeling the Benefits of Active and Passive Strategies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4680	2.6	3
8	Smart perovskite-based technologies for building integration: 2019 , 441-466		1
7	Low-cost gel polymeric electrolytes for electrochromic applications. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 111657	6.4	1
6	The Impact of Building Orientation and Window-to-Wall Ratio on the Performance of Electrochromic Glazing in Hot Arid Climates: A Parametric Assessment. <i>Buildings</i> , 2022 , 12, 724	3.2	1
5	TiO ₂ oxides for chromogenic devices and dielectric mirrors 2021 , 483-505		0
4	Towards the scale-up of solid-state, low-emissive electrochromic films, fabricated on a single substrate with novel electrolyte formulations. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 241, 111760	6.4	0
3	Titanium Dioxide in Chromogenic Devices: Synthesis, Toxicological Issues, and Fabrication Methods. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8896	2.6	
2	Thermal enhancement of windows performance by means of innovative technologies. <i>E3S Web of Conferences</i> , 2021 , 312, 02015	0.5	
1	Nanodevices and Novel Materials for Energy-Efficient constructions. <i>Energy Procedia</i> , 2016 , 101, 113-120.	2.3	

