

Abdulhakem Y Elezzabi

List of Publications by Year in Descending Order

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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.

44
papers

949
citations

16
h-index

30
g-index

51
ext. papers

1,420
ext. citations

7.6
avg, IF

5.34
L-index

#	Paper	IF	Citations
44	Extracting the complex refractive index of an ultrathin layer at terahertz frequencies with no prior knowledge of substrate absorption loss. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2022 , 1-1	3.4	1
43	A Multi-Band Photonic Source by Means of Phase-Matched Nonlinear Generation Processes. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 366-369	2.2	1
42	Excitation Mode-Dependent Terahertz Radiation Generation From a Subwavelength SiBiO ₂ /InNbO ₃ /polymerBi planar Waveguide. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 462-465	3.4	3
41	Nanoscale All-Solid-State Plasmochromic Waveguide Nonresonant Modulator. <i>Nano Letters</i> , 2021 , 21, 1955-1961	11.5	3
40	Fiber-Shaped Electronic Devices. <i>Advanced Energy Materials</i> , 2021 , 11, 2101443	21.8	15
39	Advances in Energy-Efficient Plasmonic Electrochromic Smart Windows Based on Metal Oxide Nanocrystals. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2170033	1.6	
38	Off-Normal Incidence Coupling for Perfectly Phase-Matched Second Harmonic Generation in a Sub-Micron LiNbO ₃ Planar Waveguide. <i>Journal of Lightwave Technology</i> , 2020 , 38, 3959-3964	4	1
37	Flexible Multicolor Electroluminescent Devices on Cellulose Nanocrystal Platform. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901452	3.5	2
36	Plasmochromic Nanocavity Dynamic Light Color Switching. <i>Nano Letters</i> , 2020 , 20, 1876-1882	11.5	26
35	Nanostructured inorganic electrochromic materials for light applications. <i>Nanophotonics</i> , 2020 , 10, 825-850	8.9	35
34	Simultaneously enabling dynamic transparency control and electrical energy storage via electrochromism. <i>Nanoscale Horizons</i> , 2020 , 5, 691-695	10.8	35
33	Electrochromic Battery Displays with Energy Retrieval Functions Using Solution-Processable Colloidal Vanadium Oxide Nanoparticles. <i>Advanced Optical Materials</i> , 2020 , 8, 1901224	8.1	32
32	Electrochemical Stability Enhancement of Electrochromic Tungsten Oxide by Self-Assembly of a Phosphonate Protection Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1930-1936	9.5	15
31	Transparent inorganic multicolour displays enabled by zinc-based electrochromic devices. <i>Light: Science and Applications</i> , 2020 , 9, 121	16.7	41
30	Transparent Zinc-Mesh Electrodes for Solar-Charging Electrochromic Windows. <i>Advanced Materials</i> , 2020 , 32, e2003574	24	51
29	Oxygen-Vacancy-Tunable Electrochemical Properties of Electrodeposited Molybdenum Oxide Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20378-20385	9.5	49
28	Rechargeable Aqueous Electrochromic Batteries Utilizing Ti-Substituted Tungsten Molybdenum Oxide Based Zn Ion Intercalation Cathodes. <i>Advanced Materials</i> , 2019 , 31, e1807065	24	113

27	Rechargeable Aqueous Hybrid Zn ²⁺ /Al ³⁺ Electrochromic Batteries. <i>Joule</i> , 2019 , 3, 2268-2278	27.8	103
26	Femtosecond Laser Pulse Ablation of Sub-Cellular Drusen-Like Deposits. <i>Scientific Reports</i> , 2019 , 9, 15633-9	3.9	1
25	Generation of midinfrared and visible radiation in a multiband phase-matched subwavelength LiNbO ₃ slab waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1695	1.7	4
24	Nanohybridization of molybdenum oxide with tungsten molybdenum oxide nanowires for solution-processed fully reversible switching of energy storing smart windows. <i>Nano Energy</i> , 2018 , 47, 130-139	17.1	70
23	Solution-Processed Interfacial PEDOT:PSS Assembly into Porous Tungsten Molybdenum Oxide Nanocomposite Films for Electrochromic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10520-10527	9.5	47
22	Versatile broadband polarization-independent optical circulators for nanophotonic integrated circuits. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 1504	1.7	6
21	Anti-EpCAM Gold Nanorods and Femtosecond Laser Pulses for Targeted Lysis of Retinoblastoma. <i>Advanced Therapeutics</i> , 2018 , 1, 1800009	4.9	4
20	Integrated nanoplasmonic waveguides for magnetic, nonlinear, and strong-field devices. <i>Nanophotonics</i> , 2017 , 6, 235-257	6.3	14
19	Evidence of femtosecond-laser pulse induced cell membrane nanosurgery 2017 ,		1
18	Magnetoplasmonic Faraday Rotators: Enabling Gigahertz Active Polarization Control for Integrated Plasmonics. <i>ACS Photonics</i> , 2016 , 3, 2344-2352	6.3	15
17	Novel Method for Neuronal Nanosurgical Connection. <i>Scientific Reports</i> , 2016 , 6, 20529	4.9	14
16	Characterization of femtosecond-laser pulse induced cell membrane nanosurgical attachment. <i>Biomedical Optics Express</i> , 2016 , 7, 2749-58	3.5	3
15	Ultrafast, Strong-Field Plasmonic Phenomena 2015 , 39-86		1
14	Nonmonotonic Wavelength-Dependent Power Scaling in Silicon-on-Insulator Waveguides via Nonlinear Optical Effect Conglomeration. <i>ACS Photonics</i> , 2014 , 1, 576-581	6.3	5
13	Femtosecond laser-induced cell-cell surgical attachment. <i>Lasers in Surgery and Medicine</i> , 2014 , 46, 335-413.6	3.6	7
12	Experimental Confirmation of Design Techniques for Effective Bow-Tie Antenna Lengths at THz Frequencies. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 897-901	2.2	12
11	The Role of Self-Similarity in Fractal Photoconductive THz Emitters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011 , 32, 1285-1290	2.2	6
10	An Investigation of Terahertz Particle Plasmons: Affect of Particle Size on the Transparency of a Metallic Particle Ensemble. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010 , 31, 659	2.2	2

9	Prospects and developments in cell and embryo laser nanosurgery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009 , 1, 11-25	9.2	18
8	Laser surgery of zebrafish (<i>Danio rerio</i>) embryos using femtosecond laser pulses: optimal parameters for exogenous material delivery, and the laser's effect on short- and long-term development. <i>BMC Biotechnology</i> , 2008 , 8, 7	3.5	38
7	An alternative method for delivering exogenous material into developing zebrafish embryos. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 1230-41	4.9	41
6	Reversible permeabilization using high-intensity femtosecond laser pulses: applications to biopreservation. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 889-99	4.9	40
5	Cell nanosurgery using ultrashort (femtosecond) laser pulses: applications to membrane surgery and cell isolation. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 227-30	3.6	52
4	Electrochromic Displays Having Two-Dimensional CIE Color Space Tunability. <i>Advanced Functional Materials</i> , 2108341	15.6	2
3	Advances in Energy-Efficient Plasmonic Electrochromic Smart Windows Based on Metal Oxide Nanocrystals. <i>Advanced Energy and Sustainability Research</i> , 2100117	1.6	10
2	Emerging Zn Anode-Based Electrochromic Devices. <i>Small Science</i> , 2100040		9
1	Nanoscale Manipulating Silver Adatoms for Aqueous Plasmonic Electrochromic Devices. <i>Advanced Materials Interfaces</i> , 2200021	4.6	1