

Ioannis Papakonstantinou

List of Publications by Year in descending order

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86
papers

3,117
citations

147566

31
h-index

161609

54
g-index

90
all docs

90
docs citations

90
times ranked

3180
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive plano-concave optical microresonators for ultrasound sensing. <i>Nature Photonics</i> , 2017, 11, 714-719.	15.6	255
2	Intelligent Multifunctional VO ₂ /SiO ₂ /TiO ₂ Coatings for Self-Cleaning, Energy-Saving Window Panels. <i>Chemistry of Materials</i> , 2016, 28, 1369-1376.	3.2	221
3	Carbonâ€Nanotubeâ€PDMS Composite Coatings on Optical Fibers for Allâ€Optical Ultrasound Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 8390-8396.	7.8	120
4	Visible Light Communications: 170 Mb/s Using an Artificial Neural Network Equalizer in a Low Bandwidth White Light Configuration. <i>Journal of Lightwave Technology</i> , 2014, 32, 1807-1813.	2.7	109
5	The Hidden Potential of Luminescent Solar Concentrators. <i>Advanced Energy Materials</i> , 2021, 11, 2002883.	10.2	102
6	Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	101
7	Broadband miniature optical ultrasound probe for high resolution vascular tissue imaging. <i>Biomedical Optics Express</i> , 2015, 6, 1502.	1.5	99
8	A bioinspired solution for spectrally selective thermochromic VO ₂ coated intelligent glazing. <i>Optics Express</i> , 2013, 21, A750.	1.7	90
9	Through-needle all-optical ultrasound imaging in vivo: a preclinical swine study. <i>Light: Science and Applications</i> , 2017, 6, e17103-e17103.	7.7	90
10	A Multi-CAP Visible-Light Communications System With 4.85-b/s/Hz Spectral Efficiency. <i>IEEE Journal on Selected Areas in Communications</i> , 2015, 33, 1771-1779.	9.7	85
11	Losses in luminescent solar concentrators unveiled. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 40-47.	3.0	82
12	Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. <i>Advanced Functional Materials</i> , 2018, 28, 1704919.	7.8	81
13	Sensitive and specific detection of explosives in solution and vapour by surface-enhanced Raman spectroscopy on silver nanocubes. <i>Nanoscale</i> , 2017, 9, 16459-16466.	2.8	78
14	Visible light communications: real time 10 Mb/s link with a low bandwidth polymer light-emitting diode. <i>Optics Express</i> , 2014, 22, 2830.	1.7	73
15	Exploiting Equalization Techniques for Improving Data Rates in Organic Optoelectronic Devices for Visible Light Communications. <i>Journal of Lightwave Technology</i> , 2012, 30, 3081-3088.	2.7	72
16	FirstLight: Pluggable Optical Interconnect Technologies for Polymeric Electro-Optical Printed Circuit Boards in Data Centers. <i>Journal of Lightwave Technology</i> , 2012, 30, 3316-3329.	2.7	71
17	Multi-band carrier-less amplitude and phase modulation for bandlimited visible light communications systems. <i>IEEE Wireless Communications</i> , 2015, 22, 46-53.	6.6	68
18	Transition, radiation and propagation loss in polymer multimode waveguide bends. <i>Optics Express</i> , 2007, 15, 669.	1.7	62

#	ARTICLE	IF	CITATIONS
19	On the ability of Förster resonance energy transfer to enhance luminescent solar concentrator efficiency. <i>Nano Energy</i> , 2017, 32, 263-270.	8.2	60
20	Optical fiber ultrasound transmitter with electrospun carbon nanotube-polymer composite. <i>Applied Physics Letters</i> , 2017, 110, 223701.	1.5	54
21	Wavelength-Multiplexed Polymer LEDs: Towards 55 Mb/s Organic Visible Light Communications. <i>IEEE Journal on Selected Areas in Communications</i> , 2015, 33, 1819-1828.	9.7	51
22	All-Optical Rotational Ultrasound Imaging. <i>Scientific Reports</i> , 2019, 9, 5576.	1.6	47
23	Atomic layer deposition of vanadium oxides: process and application review. <i>Materials Today Chemistry</i> , 2019, 12, 396-423.	1.7	46
24	Origin of Performance Enhancement in TiO ₂ /Carbon Nanotube Composite Perovskite Solar Cells. <i>Small Methods</i> , 2019, 3, 1900164.	4.6	45
25	Bandwidth limits of luminescent solar concentrators as detectors in free-space optical communication systems. <i>Light: Science and Applications</i> , 2021, 10, 3.	7.7	45
26	Low-Cost, Precision, Self-Alignment Technique for Coupling Laser and Photodiode Arrays to Polymer Waveguide Arrays on Multilayer PCBs. <i>IEEE Transactions on Advanced Packaging</i> , 2008, 31, 502-511.	1.7	43
27	Combined Effect of Temperature Induced Strain and Oxygen Vacancy on Metal-Insulator Transition of VO ₂ Colloidal Particles. <i>Advanced Functional Materials</i> , 2020, 30, 2005311.	7.8	42
28	Integrated optical and electronic interconnect PCB manufacturing research. <i>Circuit World</i> , 2010, 36, 5-19.	0.7	40
29	Thermochromic VO ₂ /SiO ₂ nanocomposite smart window coatings with narrow phase transition hysteresis and transition gradient width. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109944.	3.0	40
30	Fundamental limits of concentration in luminescent solar concentrators revised: the effect of reabsorption and nonunity quantum yield. <i>Optica</i> , 2015, 2, 841.	4.8	38
31	1.4-Mb/s White Organic LED Transmission System Using Discrete Multitone Modulation. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 615-618.	1.3	34
32	Unique and universal dew-repellency of nanocones. <i>Nature Communications</i> , 2021, 12, 3458.	5.8	33
33	Homeotropic alignment and Förster resonance energy transfer: The way to a brighter luminescent solar concentrator. <i>Journal of Applied Physics</i> , 2014, 116, 173103.	1.1	31
34	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. <i>Langmuir</i> , 2020, 36, 13426-13438.	1.6	31
35	Delayed Lubricant Depletion of Slippery Liquid Infused Porous Surfaces Using Precision Nanostructures. <i>Langmuir</i> , 2021, 37, 10071-10078.	1.6	31
36	Efficiency and loss mechanisms of plasmonic Luminescent Solar Concentrators. <i>Optics Express</i> , 2013, 21, A735.	1.7	28

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37	All-Silicone-based Distributed Bragg Reflectors for Efficient Flexible Luminescent Solar Concentrators. <i>Nano Energy</i> , 2020, 70, 104507.	8.2	28
38	2.7 Mb/s With a 93-kHz White Organic Light Emitting Diode and Real Time ANN Equalizer. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1687-1690.	1.3	27
39	Flexible and fluorophore-doped luminescent solar concentrators based on polydimethylsiloxane. <i>Optics Letters</i> , 2016, 41, 713.	1.7	27
40	A 20-Mb/s VLC Link With a Polymer LED and a Multilayer Perceptron Equalizer. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1975-1978.	1.3	25
41	TiO ₂ nanofiber photoelectrochemical cells loaded with sub-12Ånm AuNPs: Size dependent performance evaluation. <i>Materials Today Energy</i> , 2018, 9, 254-263.	2.5	23
42	Optimization of the thermochromic glazing design for curtain wall buildings based on experimental measurements and dynamic simulation. <i>Solar Energy</i> , 2021, 216, 14-25.	2.9	23
43	Visible light communications: 375ÅMbps/s data rate with a 160ÅkHz bandwidth organic photodetector and artificial neural network equalization [Invited]. <i>Photonics Research</i> , 2013, 1, 65.	3.4	22
44	Improved thermochromic properties in bilayer films of VO ₂ with ZnO, SnO ₂ and WO ₃ coatings for energy efficient glazing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12555-12565.	2.7	22
45	High-Performance Planar Thin Film Thermochromic Window via Dynamic Optical Impedance Matching. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8140-8145.	4.0	22
46	A MIMO-ANN system for increasing data rates in organic visible light communications systems. , 2013, , .		21
47	A 1-Mb/s Visible Light Communications Link With Low Bandwidth Organic Components. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1295-1298.	1.3	21
48	Optical 8-channel, 10 Gb/s MT pluggable connector alignment technology for precision coupling of laser and photodiode arrays to polymer waveguide arrays for optical board-to-board interconnects. , 2008, , .		16
49	Radiation- and Bound-Mode Propagation in Rectangular, Multimode Dielectric, Channel Waveguides With Sidewall Roughness. <i>Journal of Lightwave Technology</i> , 2009, 27, 4151-4163.	2.7	16
50	A Fully Bidirectional Optical Network With Latency Monitoring Capability for the Distribution of Timing-Trigger and Control Signals in High-Energy Physics Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 1628-1640.	1.2	14
51	Impact of curvature on the optimal configuration of flexible luminescent solar concentrators. <i>Optics Letters</i> , 2017, 42, 2695.	1.7	14
52	Modal Dispersion Mitigation in Standard Single-Mode Fibers at 850 nm With Fiber Mode Filters. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1476-1478.	1.3	13
53	Experimental Verification of Visible Light Communications based on Multi-Band CAP Modulation. , 2015, , .		13
54	Bioinspired Multifunctional Glass Surfaces through Regenerative Secondary Mask Lithography. <i>Advanced Materials</i> , 2021, 33, e2102175.	11.1	13

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55	Mitigation of hysteresis due to a pseudo-photochromic effect in thermochromic smart window coatings. <i>Scientific Reports</i> , 2018, 8, 13249.	1.6	11
56	Particle Size Evolution during the Synthesis of Gold Nanoparticles Using <i>In Situ</i> Time-Resolved UV-Vis Spectroscopy: An Experimental and Theoretical Study Unravelling the Effect of Adsorbed Gold Precursor Species. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27662-27672.	1.5	11
57	Precision-Microfabricated Fiber-Optic Probe for Intravascular Pressure and Temperature Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-12.	1.9	11
58	Integrated optical and electronic interconnect printed circuit board manufacturing. <i>Circuit World</i> , 2008, 34, 21-26.	0.7	10
59	Spacer-Defined Intrinsic Multiple Patterning. <i>ACS Nano</i> , 2020, 14, 12091-12100.	7.3	10
60	Insertion Loss and Misalignment Tolerance in Multimode Tapered Waveguide Bends. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1000-1002.	1.3	8
61	Influence of Depth of Interaction upon the Performance of Scintillator Detectors. <i>PLoS ONE</i> , 2014, 9, e98177.	1.1	8
62	Thermoresponsive Black VO ₂ -Carbon Nanotube Composite Coatings for Solar Energy Harvesting. <i>ACS Applied Nano Materials</i> , 2020, 3, 8848-8857.	2.4	8
63	Large Scale Production of Photonic Crystals-Scintillators. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 639-643.	1.2	7
64	Micron resolution, high-fidelity three-dimensional vascular optical imaging phantoms. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	7
65	A route to engineered high aspect-ratio silicon nanostructures through regenerative secondary mask lithography. <i>Nanoscale</i> , 2022, 14, 1847-1854.	2.8	7
66	Organic visible light communications: Recent progress. , 2014, , .		6
67	Light Extraction From Scintillating Crystals Enhanced by Photonic Crystal Structures Patterned by Focused Ion Beam. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 644-648.	1.2	6
68	Innovative Optical and Electronic Interconnect Printed Circuit Board Manufacturing research. , 2008, , .		5
69	Next Generation Visible Light Communications: 10 Mb/s with Polymer Light-Emitting Diodes. , 2014, , .		5
70	The Effect of Alkali Metal (Na, K) Doping on Thermochromic Properties of VO ₂ Films. <i>MRS Advances</i> , 2018, 3, 1863-1869.	0.5	5
71	Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in η -Solar Cells. <i>ChemElectroChem</i> , 2019, 6, 3590-3598.	1.7	5
72	Dynamically configurable, successively switchable multispectral plasmon-induced transparency. <i>Optics Letters</i> , 2019, 44, 3829.	1.7	5

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73	Real-time needle guidance with photoacoustic and laser-generated ultrasound probes. Proceedings of SPIE, 2015, , .	0.8	4
74	Highly sensitive optical microresonator sensors for photoacoustic imaging. Proceedings of SPIE, 2014, , .	0.8	3
75	A combined experimental and theoretical study into the performance of multilayer vanadium dioxide nanocomposites for energy saving applications. , 2018, , .		3
76	Optical interferometric temperature sensors for intravascular blood flow measurements. , 2019, , .		3
77	The impact of bead milling on the thermodynamics and kinetics of the structural phase transition of VO ₂ particulate materials and their potential for use in thermochromic glazing. Solar Energy Materials and Solar Cells, 2022, 242, 111783.	3.0	3
78	Online artificial neural network equalization for a visible light communications system with an organic light emitting diode based transmitter. , 2013, , .		2
79	3D printed micro-scale fiber optic probe for intravascular pressure sensing. , 2018, , .		2
80	Universal Theory of Light Scattering of Randomly Oriented Particles: A Fluctuational-Electrodynamics Approach for Light Transport Modeling in Disordered Nanostructures. ACS Photonics, 2022, 9, 672-681.	3.2	2
81	Component and System Level Studies of Radiation Damage Impact on Reflective Electroabsorption Modulators for Use in HL-LHC Data Transmission. IEEE Transactions on Nuclear Science, 2013, 60, 386-393.	1.2	1
82	Passive Optical Networks for Timing-Trigger and Control applications in high energy physics experiments. , 2010, , .		0
83	Timing Performance Improvement of Scintillator Detectors via Inclusion of Reflection Metasurfaces. , 2014, , .		0
84	Fiber optic ultrasound transducers with carbon/PDMS composite coatings. , 2014, , .		0
85	Influence of Lithium and Lanthanum Treatment on TiO ₂ Nanofibers and Their Application in Solar Cells. ChemElectroChem, 2019, 6, 3529-3529.	1.7	0
86	Optical fiber laser ultrasound transmitter with electrospun composite for minimally invasive medical imaging. , 2017, , .		0