christophe Lethien

List of Publications by Year in descending order

60 papers	2,520 citations	236612 25 h-index	197535 49 g-index
60 all docs	60 docs citations	60 times ranked	3237 citing authors

#	Article	IF	Citations
1	On-chip and freestanding elastic carbon films for micro-supercapacitors. Science, 2016, 351, 691-695.	6.0	623
2	Challenges and prospects of 3D micro-supercapacitors for powering the internet of things. Energy and Environmental Science, 2019, 12, 96-115.	15.6	297
3	Atomic Layer Deposition of Functional Layers for on Chip 3D Liâ€Ion All Solid State Microbattery. Advanced Energy Materials, 2017, 7, 1601402.	10.2	119
4	Radio-over-fiber transport for the support of wireless broadband services [Invited]. Journal of Optical Networking, 2009, 8, 156.	2.5	105
5	Novel insights into the charge storage mechanism in pseudocapacitive vanadium nitride thick films for high-performance on-chip micro-supercapacitors. Energy and Environmental Science, 2020, 13, 949-957.	15.6	78
6	High Areal Energy 3Dâ€Interdigitated Microâ€Supercapacitors in Aqueous and Ionic Liquid Electrolytes. Advanced Materials Technologies, 2017, 2, 1700126.	3.0	77
7	Optically Powered Remote Units for Radio-Over-Fiber Systems. Journal of Lightwave Technology, 2008, 26, 2484-2491.	2.7	68
8	Siliconâ€Microtube Scaffold Decorated with Anatase TiO₂ as a Negative Electrode for a 3D Litiumâ€Ion Microbattery. Advanced Energy Materials, 2014, 4, 1301612.	10.2	67
9	On Chip Interdigitated Microâ€Supercapacitors Based on Sputtered Bifunctional Vanadium Nitride Thin Films with Finely Tuned Interâ€•and Intracolumnar Porosities. Advanced Materials Technologies, 2018, 3, 1800036.	3.0	65
10	Sputtered tungsten nitride films as pseudocapacitive electrode for on chip micro-supercapacitors. Energy Storage Materials, 2019, 20, 243-252.	9.5	65
11	Asymmetric micro-supercapacitors based on electrodeposited Ruo2 and sputtered VN films. Energy Storage Materials, 2021, 37, 207-214.	9.5	64
12	MnO₂ Thin Films on 3D Scaffold: Microsupercapacitor Electrodes Competing with â€œBulkâ€• Carbon Electrodes. Advanced Energy Materials, 2015, 5, 1500680.	10.2	60
13	Micro-patterning of LiPON and lithium iron phosphate material deposited onto silicon nanopillars array for lithium ion solid state 3D micro-battery. Microelectronic Engineering, 2011, 88, 3172-3177.	1.1	45
14	Sputtered Titanium Carbide Thick Film for High Areal Energy on Chip Carbonâ€Based Microâ€Supercapacitors. Advanced Functional Materials, 2017, 27, 1606813.	7.8	45
15	Ultra-high areal capacitance and high rate capability RuO2 thin film electrodes for 3D micro-supercapacitors. Energy Storage Materials, 2021, 42, 259-267.	9.5	41
16	Synthesis of T-Nb2O5 thin-films deposited by Atomic Layer Deposition for miniaturized electrochemical energy storage devices. Energy Storage Materials, 2019, 16, 581-588.	9.5	40
17	Further studies on the lithium phosphorus oxynitride solid electrolyte. Materials Chemistry and Physics, 2010, 123, 231-235.	2.0	39
18	On chip MnO2-based 3D micro-supercapacitors with ultra-high areal energy density. Energy Storage Materials, 2021, 38, 520-527.	9.5	39

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19	Potentials of radio over multimode fiber systems for the in-buildings coverage of mobile and wireless LAN applications. IEEE Photonics Technology Letters, 2005, 17, 2793-2795.	1.3	36
20	Electrochemical behavior of high performance on-chip porous carbon films for micro-supercapacitors applications in organic electrolytes. Journal of Power Sources, 2016, 328, 520-526.	4.0	35
21	Tuning the Cation Ordering with the Deposition Pressure in Sputtered LiMn_{1.5}Ni_{0.5}O₄ Thin Film Deposited on Functional Current Collectors for Li-Ion Microbattery Applications. Chemistry of Materials, 2017, 29, 6044-6057.	3.2	35
22	Sputtered LiMn1.5Ni0.5O4 thin films for Li-ion micro-batteries with high energy and rate capabilities. Energy Storage Materials, 2018, 15, 396-406.	9.5	34
23	Exploit the Bandwidth Capacities of the Perfluorinated Graded Index Polymer Optical Fiber for Multi-Services Distribution. Polymers, 2011, 3, 1006-1028.	2.0	32
24	Fast Xâ€ray Nanotomography with Subâ€10Ânm Resolution as a Powerful Imaging Tool for Nanotechnology and Energy Storage Applications. Advanced Materials, 2021, 33, e2008653.	11.1	32
25	Photopatternable hydroxide ion electrolyte for solid-state micro-supercapacitors. Joule, 2021, 5, 2466-2478.	11.7	30
26	Fast Electrochemical Storage Process in Sputtered Nb₂O₅ Porous Thin Films. ACS Nano, 2019, 13, 5826-5832.	7.3	29
27	Sputtered Titanium Nitride: A Bifunctional Material for Li-Ion Microbatteries. Journal of the Electrochemical Society, 2015, 162, A493-A500.	1.3	25
28	Simultaneous Dual Band Transmission Over Multimode Fiber-Fed Indoor Wireless Network. IEEE Microwave and Wireless Components Letters, 2006, 16, 627-629.	2.0	23
29	Energy-Autonomous Picocell Remote Antenna Unit for Radio-Over-Fiber System Using the Multiservices Concept. IEEE Photonics Technology Letters, 2012, 24, 649-651.	1.3	23
30	Atomic Layer Deposition of a Nanometer-Thick Li₃PO₄ Protective Layer on LiNi_{0.5}Mn_{1.5}O₄ Films: Dream or Reality for Long-Term Cycling?. ACS Applied Materials & Interfaces, 2021, 13, 15761-15773.	4.0	23
31	Reflow Soldering-Resistant Solid-State 3D Micro-Supercapacitors Based on Ionogel Electrolyte for Powering the Internet of Things. Journal of the Electrochemical Society, 2020, 167, 100551.	1.3	20
32	Can an Inorganic Coating Serve as Stable SEI for Aqueous Superconcentrated Electrolytes?. ACS Energy Letters, 2021, 6, 2575-2583.	8.8	20
33	A Distributed Antenna System for Indoor Accurate WiFi Localization. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1184-1187.	2.4	19
34	Carbon quantum dots as a dual platform for the inhibition and light-based destruction of collagen fibers: implications for the treatment of eye floaters. Nanoscale Horizons, 2021, 6, 449-461.	4.1	14
35	Solid-state 3D micro-supercapacitors based on ionogel electrolyte: Influence of adding lithium and sodium salts to the ionic liquid. Energy Storage Materials, 2022, 50, 606-617.	9.5	14
36	Indoor coverage improvement of MB-OFDM UWB signals with radio over POF system. Optics Communications, 2009, 282, 4706-4715.	1.0	13

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37	Review of Glass and Polymer Multimode Fibers Used in a Wimedia Ultrawideband MB-OFDM Radio Over Fiber System. Journal of Lightwave Technology, 2009, 27, 1320-1331.	2.7	13
38	A First Outlook of Sputtered FeWO₄ Thin Films for Micro-Supercapacitor Electrodes. Journal of the Electrochemical Society, 2021, 168, 030524.	1.3	13
39	Radio-optic demonstrator for distributed antenna system indoor wireless applications using low-cost VCSELs. European Transactions on Telecommunications, 2007, 18, 811-814.	1.2	11
40	Subcarrier radio signal transmission over multimode fibre for 60â€…GHz WLAN using a phase noise cancellation technique. Electronics Letters, 2005, 41, 91.	0.5	10
41	Sputtered LiNi_{0.5}Mn_{1.5}O₄ Thin Films for Lithium-Ion Microbatteries. ACS Applied Energy Materials, 2021, 4, 3101-3109.	2.5	10
42	3D LiMn₂O₄ Thin Film Deposited by ALD: A Road toward Highâ€Capacity Electrode for 3D Liâ€Ion Microbatteries. Small, 2022, 18, e2107054.	5.2	10
43	In Situ Liquid Electrochemical TEM Investigation of LiMn_{1.5}Ni_{0.5}O₄ Thin Film Cathode for Microâ€Battery Applications. Small Methods, 2022, 6, e2100891.	4.6	8
44	Differential Mode Delay Measurements of Fluorinated Graded Index Polymer Optical Fiber. IEEE Photonics Technology Letters, 2008, 20, 1584-1586.	1.3	6
45	Multi-service applications on high modal bandwidth glass multimode fibre. Electronics Letters, 2009, 45, 951.	0.5	6
46	Control of gallium incorporation in solâ€“gel derived CuIn(1â^')Ga S2 thin films for photovoltaic applications. Materials Research Bulletin, 2015, 70, 137-144.	2.7	6
47	Potential of the polymer optical fibers deployed in a 10Gbps small office/home office network. Optics Express, 2008, 16, 11266.	1.7	5
48	Influence of ion implantation on the charge storage mechanism of vanadium nitride pseudocapacitive thin films. Electrochemistry Communications, 2021, 125, 107016.	2.3	5
49	Characterisation of SiO2 transferred GaAs electroabsorption modulator for 850â€…nm radio over fibre systems based on multimode fibre. Electronics Letters, 2004, 40, 1075.	0.5	4
50	An Impulse System for 60-GHz Wireless Networks Based on Polymer Optical Fiber. IEEE Photonics Technology Letters, 2007, 19, 1964-1966.	1.3	4
51	Characterization of InP semiconductor waveguides coupled to disk microcavity optical resonators via opto-microwave technique. Microwave and Optical Technology Letters, 2005, 45, 315-317.	0.9	3
52	Potential of the high modal bandwidth OM4 glass multimode fiber for the multi-services concept. Optics Communications, 2011, 284, 585-589.	1.0	3
53	Hall-Effect Measurements of Solâ€“Gel Derived CuInS$_{2}$ Thin Films for Photovoltaic Applications. Applied Physics Express, 2012, 5, 125801.	1.1	3
54	Radio over fibre systems using perfluorinated graded index polymer optical fibre. Microwave and Optical Technology Letters, 2006, 48, 1197-1199.	0.9	2

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55	Three-Dimensional TiO₂ Film Deposited by ALD on Porous Metallic Scaffold for 3D Li-Ion Micro-Batteries: A Road towards Ultra-High Capacity Electrode. Journal of the Electrochemical Society, 2022, 169, 040523.	1.3	2
56	10 GbE and Radio over Fiber Dual Transmission through Polymer Optical Fiber. Applied Physics Express, 2011, 4, 112502.	1.1	1
57	Ionic Transport and Charge Distribution in Miniaturized Electrochemical Energy Storage Devices byModeling Investigation. Journal of the Electrochemical Society, 0, , .	1.3	1
58	Towards the 3-D Microfabrication and Integration of a Complete Power Unit Used for Energy Autonomous Wireless System. ECS Transactions, 2010, 25, 11-21.	0.3	0
59	Radio over fiber systems: towards low-cost multi-standard and high data rate wireless applications. , 2009, , .		0
60	In-situ Liquid Electrochemical TEM Investigation of Semi Solid-State LMNO Micro-Battery. Microscopy and Microanalysis, 2021, 27, 1044-1046.	0.2	0