

# Tapio Fabritius

## List of Publications by Year in descending order

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66  
papers

1,323  
citations

394421

19  
h-index

361022

35  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1558  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Environmental Conditions on the Degree of Efficiency and Operating Range of PV-Powered Electric Vehicles. Applied Sciences (Switzerland), 2022, 12, 1232.	2.5	2
2	Suitable Cathode NMP Replacement for Efficient Sustainable Printed Li-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 4047-4058.	5.1	24
3	Printed electronics to accelerate solid-state battery development. Nano Express, 2022, 3, 021002.	2.4	11
4	Graphene-Based Multiband Chiral Metamaterial Absorbers Comprised of Square Split-Ring Resonator Arrays With Different Numbers of Gaps, and Their Equivalent Circuit Model. IEEE Access, 2022, 10, 63658-63671.	4.2	12
5	On the hydration of synthetic aluminosilicate glass as a sole cement precursor. Cement and Concrete Research, 2022, 159, 106859.	11.0	12
6	Determination of the Refractive Index of Particles Through the Immersion Solid Matching Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-5.	4.7	1
7	Characterization of Seamless CdTe Photon Counting X-Ray Detector. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	2
8	Online measurement of floc size, viscosity, and consistency of cellulose microfibril suspensions with optical coherence tomography. Cellulose, 2021, 28, 3373-3387.	4.9	6
9	Thermography of Photovoltaic Panels and Defect Detection Under Outdoor Environmental Conditions. , 2021, , .		3
10	Wavelength Scanning Interferometry for Topography of Microchannels at Roll-to-Roll Line with Optical Coherence Tomography. , 2021, , .		1
11	Hybrid Thermal Modeling to Predict LED Thermal Behavior in Hybrid Electronics. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	1
12	Nanocellulose as Sustainable Replacement for Plastic Substrates in Printed Electronics Applications. , 2021, , .		2
13	Replacement of NMP solvent for more sustainable, high-capacity, printed Li-ion battery cathodes. , 2021, , .		3
14	Graphene-based dual-functional chiral metamirror composed of complementary 90° rotated U-shaped resonator arrays and its equivalent circuit model. Scientific Reports, 2021, 11, 23827.	3.3	12
15	Impacts on the Output Power of Photovoltaics on Top of Electric and Hybrid Electric Vehicles. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2449-2458.	4.7	26
16	Non-Contact Characterization of Flexible Hybrid Electronics by Synchronized Thermography. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2390-2397.	4.7	5
17	Taming the Coffee Ring Effect: Enhanced Thermal Control as a Method for Thin-Film Nanopatterning. Langmuir, 2020, 36, 9562-9570.	3.5	28
18	Controllable terahertz cross-shaped three-dimensional graphene intrinsically chiral metastructure and its biosensing application. Optics Communications, 2020, 474, 126080.	2.1	56

#	ARTICLE	IF	CITATIONS
19	The Effect of Torsional Bending on Reliability and Lifetime of Printed Silver Conductors. IEEE Transactions on Electron Devices, 2020, 67, 2522-2528.	3.0	4
20	Measuring and modelling the thermal behavior of LEDs in structural electronics. , 2020, , .		1
21	Reliability of R2R-printed, flexible electrodes for e-clothing applications. Npj Flexible Electronics, 2020, 4, .	10.7	25
22	Tunable Mid-Infrared Graphene Plasmonic Cross-Shaped Resonator for Demultiplexing Application. Applied Sciences (Switzerland), 2020, 10, 1193.	2.5	17
23	Equivalent circuit model of graphene chiral multi-band metadvice absorber composed of U-shaped resonator array. Optics Express, 2020, 28, 39850.	3.4	35
24	Influence of elongation and washing on double-layer R2R-printed flexible electrodes for smart clothing applications. , 2020, , .		1
25	Determining the complex refractive index of cellulose nanocrystals by combination of Beer-Lambert and immersion matching methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 1-6.	2.3	40
26	Monitoring drying process of varnish by immersion solid matching method. Progress in Organic Coatings, 2019, 136, 105299.	3.9	4
27	Yield and Electrical Functionality of the Glass-Laminated Conductive Wires and Connectors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2499-2505.	2.5	6
28	Non-Destructive Characterization of Glass Laminated Electronics. , 2019, , .		5
29	Stable Colloidal Quantum Dot Inks Enable Inkjet-Printed High-Sensitivity Infrared Photodetectors. ACS Nano, 2019, 13, 11988-11995.	14.6	99
30	Quantitative assessment of structural and compositional colors induced by femtosecond laser: A case study on 301LN stainless steel surface. Applied Surface Science, 2019, 484, 655-662.	6.1	15
31	Moving Photovoltaic Installations: Impacts of the Sampling Rate on Maximum Power Point Tracking Algorithms. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1485-1493.	4.7	8
32	Effect of solvent lamination on roll-to-roll hot-embossed PMMA microchannels evaluated by optical coherence tomography. Materials Research Express, 2019, 6, 075333.	1.6	7
33	Recycling perovskite solar cells through inexpensive quality recovery and reuse of patterned indium tin oxide and substrates from expired devices by single solvent treatment. Solar Energy Materials and Solar Cells, 2019, 194, 74-82.	6.2	39
34	Contactless online characterization of large-area conductive thin films by thermography and induction. Optics Letters, 2019, 44, 2574.	3.3	5
35	Detecting Defects in Photovoltaic Panels With the Help of Synchronized Thermography. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1178-1186.	4.7	32
36	Thermography based online characterization of conductive thin films in large-scale electronics fabrication. Optics Express, 2018, 26, 1219.	3.4	10

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37	Rheological and Flocculation Analysis of Microfibrillated Cellulose Suspension Using Optical Coherence Tomography. Applied Sciences (Switzerland), 2018, 8, 755.	2.5	10
38	Analysis of rheology and wall depletion of microfibrillated cellulose suspension using optical coherence tomography. Cellulose, 2017, 24, 4715-4728.	4.9	19
39	Quantification of cell-free layer thickness and cell distribution of blood by optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 040501.	2.6	6
40	The Effect of Width and Thickness on Cyclic Bending Reliability of Screen-Printed Silver Traces on a Plastic Substrate. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 722-728.	2.5	7
41	Performance Enhancement of Polymer Electrolyte MEIS Hydrogen Sensor by DC-Biasing. IEEE Sensors Journal, 2016, 16, 5292-5297.	4.7	3
42	Bending reliability of printed conductors deposited on plastic foil with various silver pastes. International Journal of Advanced Manufacturing Technology, 2016, 82, 1663-1673.	3.0	19
43	Detecting Defects in Photovoltaic Cells and Panels and Evaluating the Impact on Output Performances. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1108-1119.	4.7	42
44	Screen-Printed Remotely Readable Environmental Sensor Pair. IEEE Sensors Journal, 2016, 16, 3523-3531.	4.7	6
45	Interactions between aminated cellulose nanocrystals and quartz: Adsorption and wettability studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 489, 207-215.	4.7	28
46	Disposable optics for microscopy diagnostics. Scientific Reports, 2015, 5, 16957.	3.3	8
47	Synergetic Enhancement of Device Efficiency in Poly(3-hexylthiophene-2,5-diyl)/[6,6]-phenyl C61Butyric Acid Methyl Ester Bulk Heterojunction Solar Cells by Glycerol Addition in the Active Layer. International Journal of Photoenergy, 2015, 2015, 1-8.	2.5	0
48	How to Control Component Ratio of Conducting Polymer Blend for Organic Photovoltaic Devices by Annealing. International Journal of Photoenergy, 2015, 2015, 1-6.	2.5	2
49	Large area quantitative analysis of nanostructured thin-films. RSC Advances, 2015, 5, 12409-12415.	3.6	1
50	Cyclic Bending Reliability of Silk Screen Printed Silver Traces on Plastic and Paper Substrates. IEEE Transactions on Device and Materials Reliability, 2015, 15, 394-401.	2.0	22
51	Light Emission Color Conversion of Polyfluorene-Blend OLEDs Induced by Thermal Annealing. IEEE Transactions on Electron Devices, 2015, 62, 2238-2243.	3.0	6
52	Percolation approach to digital comparative holography via optical flow investigation. , 2014, , .		0
53	Chaos Theory-Based Investigation of Optical Vignetting in Digital Comparative Holography. , 2014, , .		1
54	Chaotic Analysis of Optical Vignetting in Digital Comparative Holography. IEEE Latin America Transactions, 2014, 12, 244-247.	1.6	9

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55	Reliability Study on Adhesive Interconnections in Flex-to-Flex Printed Electronics Applications Under Environmental Stresses. IEEE Transactions on Device and Materials Reliability, 2014, 14, 1005-1012.	2.0	21
56	Influence of temperature on wetting properties of thin films in organic solar cells applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 182-187.	4.7	17
57	Effect of plasma treated Ag/indium tin oxide anode modification on stability of polymer solar cells. Solar Energy Materials and Solar Cells, 2014, 128, 330-334.	6.2	7
58	Electrical heating synchronized with IR imaging to determine thin film defects. Optics Express, 2013, 21, 32358.	3.4	17
59	Choroidal thickness measurement in healthy Japanese subjects by three-dimensional high-penetration optical coherence tomography. Graefe's Archive for Clinical and Experimental Ophthalmology, 2011, 249, 1485-1492.	1.9	125
60	Laser applications in life sciences. Journal of Biophotonics, 2011, 4, 141-142.	2.3	0
61	Wettability characterization method based on optical coherence tomography imaging. Optics Express, 2010, 18, 22859.	3.4	13
62	Automated segmentation of the macula by optical coherence tomography. Optics Express, 2009, 17, 15659.	3.4	100
63	Quantitative retinal-blood flow measurement with three-dimensional vessel geometry determination using ultrahigh-resolution Doppler optical coherence angiography. Optics Letters, 2008, 33, 836.	3.3	116
64	Full-range, high-speed, high-resolution 1- $\mu\text{m}$ spectral-domain optical coherence tomography using BM-scan for volumetric imaging of the human posterior eye. Optics Express, 2008, 16, 8406.	3.4	136
65	Investigation of swelling behaviour in strongly scattering porous media using optical coherence tomography. Journal Physics D: Applied Physics, 2006, 39, 2609-2612.	2.8	15
66	Liquid sorption investigation of porous media by optical coherence tomography. Journal Physics D: Applied Physics, 2006, 39, 4668-4672.	2.8	7