Petri Murto

List of Publications by Year
in descending order

31 papers	994 citations	430874 18 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	973 citing authors

#	ARTICLE	IF	CITATIONS
1	Solarâ€Driven Interfacial Evaporation and Selfâ€Powered Water Wave Detection Based on an Allâ€Cellulose Monolithic Design. Advanced Functional Materials, 2021, 31, 2008681.	14.9	150
2	Selfâ€Repairing and Damageâ€Tolerant Hydrogels for Efficient Solarâ€Powered Water Purification and Desalination. Advanced Functional Materials, 2021, 31, 2104464.	14.9	93
3	Design of monolithic closed-cell polymer foams <i>via</i> controlled gas-foaming for high-performance solar-driven interfacial evaporation. Journal of Materials Chemistry A, 2021, 9, 9692-9705.	10.3	77
4	Intense and Stable Near-Infrared Emission from Light-Emitting Electrochemical Cells Comprising a Metal-Free Indacenodithieno[3,2-<i>b</i>]thiophene-Based Copolymer as the Single Emitter. Chemistry of Materials, 2017, 29, 7750-7759.	6.7	49
5	Efficient Nearâ€Infrared Electroluminescence at 840 nm with â€œMetalâ€Freeâ€•Smallâ€Molecule:Polymer Blends. Advanced Materials, 2018, 30, e1706584.	21.0	49
6	Triazolobenzothiadiazoleâ€Based Copolymers for Polymer Lightâ€Emitting Diodes: Pure Nearâ€Infrared Emission via Optimized Energy and Charge Transfer. Advanced Optical Materials, 2016, 4, 2068-2076.	7.3	48
7	High Performance All-Polymer Photodetector Comprising a Donorâ€“Acceptorâ€“Acceptor Structured Indacenodithiopheneâ€“Bithieno[3,4-<i>c</i>]Pyrroletetrone Copolymer. ACS Macro Letters, 2018, 7, 395-400.	4.8	43
8	High-performance semitransparent polymer solar cells floating on water: Rational analysis of power generation, water evaporation and algal growth. Nano Energy, 2020, 77, 105111.	16.0	43
9	High-Performance Organic Photodetectors from a High-Bandgap Indacenodithiophene-Based Ï€-Conjugated Donorâ€“Acceptor Polymer. ACS Applied Materials & Interfaces, 2018, 10, 12937-12946.	8.0	42
10	Shape-controlled fabrication of cost-effective, scalable and anti-biofouling hydrogel foams for solar-powered clean water production. Chemical Engineering Journal, 2022, 431, 134144.	12.7	40
11	Design of self-righting steam generators for solar-driven interfacial evaporation and self-powered water wave detection. Journal of Materials Chemistry A, 2020, 8, 24664-24674.	10.3	36
12	Star-Shaped Diketopyrrolopyrroleâ€“Zinc Porphyrin that Delivers 900 nm Emission in Light-Emitting Electrochemical Cells. Chemistry of Materials, 2019, 31, 9721-9728.	6.7	34
13	Highly Stable Indacenodithieno[3,2-<i>b</i>]thiophene-Based Donorâ€“Acceptor Copolymers for Hybrid Electrochromic and Energy Storage Applications. Macromolecules, 2020, 53, 11106-11119.	4.8	31
14	Synergistic solar-powered water-electricity generation <i>via</i> rational integration of semitransparent photovoltaics and interfacial steam generators. Journal of Materials Chemistry A, 2021, 9, 21197-21208.	10.3	28
15	Incorporation of Designed Donorâ€“Acceptorâ€“Donor Segments in a Host Polymer for Strong Near-Infrared Emission from a Large-Area Light-Emitting Electrochemical Cell. ACS Applied Energy Materials, 2018, 1, 1753-1761.	5.1	23
16	Combining Benzotriazole and Benzodithiophene Host Units in Hostâ€“Guest Polymers for Efficient and Stable Nearâ€Infrared Emission from Lightâ€Emitting Electrochemical Cells. Advanced Optical Materials, 2019, 7, 1900280.	7.3	23
17	Synergistic Engineering of Substituents and Backbones on Donor Polymers: Toward Terpolymer Design of High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 23993-24004.	8.0	22
18	Electro-optical Ï€-radicals: design advances, applications and future perspectives. Journal of Materials Chemistry C, 2022, 10, 7368-7403.	5.5	21

#	Article	IF	Citations
19	Hygroscopic photothermal beads from marine polysaccharides: demonstration of efficient atmospheric water production, indoor humidity control and photovoltaic panel cooling. Journal of Materials Chemistry A, 2022, 10, 8556-8567.	10.3	20
20	On the Design of Hostâ€“Guest Lightâ€Emitting Electrochemical Cells: Should the Guest be Physically Blended or Chemically Incorporated into the Host for Efficient Emission?. Advanced Optical Materials, 2019, 7, 1900451.	7.3	19
21	Broad spectrum absorption and low-voltage electrochromic operation from indacenodithieno[3,2-<i>b</i>]thiophene-based copolymers. Polymer Chemistry, 2019, 10, 2004-2014.	3.9	15
22	Fabrication of Monopile Polymer Foams via Rotating Gas Foaming: Hybrid Applications in Solarâ€Powered Interfacial Evaporation and Water Remediation. Solar Rrl, 2022, 6, .	5.8	14
23	Design of Doubleâ€Network Clickâ€Gels for Selfâ€Contained Underwater Adhesion and Energyâ€Wise Applications in Floating Photovoltaics. Advanced Functional Materials, 2022, 32, .	14.9	13
24	Low-gap zinc porphyrin as an efficient dopant for photomultiplication type photodetectors. Chemical Communications, 2020, 56, 12769-12772.	4.1	11
25	Nearâ€Infrared Emission by Tuned Aggregation of a Porphyrin Compound in a Hostâ€“Guest Lightâ€Emitting Electrochemical Cell. Advanced Optical Materials, 2021, 9, 2001701.	7.3	11
26	Open-Circuit Voltage Modulations on All-Polymer Solar Cells by Side Chain Engineering on 4,8-Di(thiophen-2-yl)benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene-Based Donor Polymers. ACS Applied Energy Materials, 2018, 1, 2918-2926.	5.1	10
27	Semitransparent polymer solar cells floating on water: selected transmission windows and active control of algal growth. Journal of Materials Chemistry C, 2021, 9, 13132-13143.	5.5	8
28	Expanded Multiband Super-Nyquist CAP Modulation for Highly Bandlimited Organic Visible Light Communications. IEEE Systems Journal, 2020, 14, 2544-2550.	4.6	7
29	A porphyrin pentamer as a bright emitter for NIR OLEDs. Journal of Materials Chemistry C, 2022, 10, 5929-5933.	5.5	6
30	Experimental Demonstration of Staggered CAP Modulation for Low Bandwidth Red-Emitting Polymer-LED Based Visible Light Communications. , 2019, , .		5
31	Hybrid Super-Nyquist CAP Modulation based VLC with Low Bandwidth Polymer LEDs. , 2019, , .		3