

# Matthieu Becuwe

## List of Publications by Year in descending order

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46  
papers

1,122  
citations

430874

18  
h-index

414414

32  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1432  
citing authors

#	ARTICLE	IF	CITATIONS
1	A perspective on organic electrode materials and technologies for next generation batteries. Journal of Power Sources, 2021, 482, 228814.	7.8	140
2	Pseudocapacitance and excellent cyclability of 2,5-dimethoxy-1,4-benzoquinone on graphene. Energy and Environmental Science, 2016, 9, 2586-2594.	30.8	129
3	Lithium Insertion / De-Insertion Properties of $\beta$ -Extended Naphthyl-Based Dicarboxylate Electrode Synthesized by Freeze-Drying. Journal of the Electrochemical Society, 2014, 161, A46-A52.	2.9	74
4	Hyper-conjugated lithium carboxylate based on a perylene unit for high-rate organic lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 18225-18228.	10.3	69
5	An air-stable lithiated cathode material based on a 1,4-benzenedisulfonate backbone for organic Li-ion batteries. Journal of Materials Chemistry A, 2018, 6, 19182-19189.	10.3	57
6	Photochemical behaviour upon the inclusion for some volatile organic compounds in new fluorescent indolizine $\beta$ -cyclodextrin sensors. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 185, 312-320.	3.9	51
7	Fluorescent Indolizine- $\beta$ -Cyclodextrin Derivatives for the Detection of Volatile Organic Compounds. Sensors, 2008, 8, 3689-3705.	3.8	49
8	Organic Negative Electrode Materials for Metal-Ion and Molecular-Ion Batteries: Progress and Challenges from a Molecular Engineering Perspective. Advanced Energy Materials, 2021, 11, 2101562.	19.5	44
9	2D-Layered Lithium Carboxylate Based on Biphenyl Core as Negative Electrode for Organic Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 546-554.	6.7	41
10	Phenothiazine-MXene Aqueous Asymmetric Pseudocapacitors. ACS Applied Energy Materials, 2020, 3, 3144-3149.	5.1	40
11	Electrochemical polymerization of chloride doped PEDOT hierarchical porous nanostructure on graphite as a potential electrode for high performance supercapacitor. Electrochimica Acta, 2020, 354, 136669.	5.2	37
12	Decreasing redox voltage of terephthalate-based electrode material for Li-ion battery using substituent effect. Journal of Power Sources, 2017, 359, 198-204.	7.8	36
13	New fluorescent and electropolymerizable N-azacrown carbazole as a selective probe for iron (III) in aqueous media. Sensors and Actuators B: Chemical, 2012, 171-172, 1022-1028.	7.8	35
14	Improvement of Gold-Catalyzed Oxidation of Free Carbohydrates to Corresponding Aldonates Using Microwaves. ACS Sustainable Chemistry and Engineering, 2016, 4, 2432-2438.	6.7	33
15	$\text{SiO}_2$ /Ionic Liquid Hybrid Nanoparticles for Solid-State Lithium Ion Conduction. Chemistry of Materials, 2015, 27, 7926-7933.	6.7	30
16	Multi-electron redox asymmetric supercapacitors based on quinone-coupled viologen derivatives and $\text{Ti}_3\text{C}_2\text{Tx}$ MXene. Materials Today Energy, 2020, 18, 100532.	4.7	27
17	Gold Catalysis and Photoactivation: A Fast and Selective Procedure for the Oxidation of Free Sugars. ACS Catalysis, 2018, 8, 1635-1639.	11.2	26
18	Reversible Anion Insertion in Molecular Phenothiazine-Based Redox-Active Positive Material for Organic Ion Batteries. ChemSusChem, 2020, 13, 2364-2370.	6.8	23

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19	Substituent effect on redox potential of terephthalate-based electrode materials for lithium batteries. <i>Electrochemistry Communications</i> , 2018, 93, 71-75.	4.7	21
20	Tuneable fluorescent marker appended to $\beta$ -cyclodextrin: a pH-driven molecular switch. <i>Tetrahedron Letters</i> , 2007, 48, 6186-6188.	1.4	18
21	A new sensitive organic/inorganic hybrid material based on titanium oxide for the potentiometric detection of iron(III). <i>Journal of Colloid and Interface Science</i> , 2012, 388, 130-136.	9.4	13
22	Mesoscale Texturation of Organic-Based Negative Electrode Material through in Situ Proton Reduction of Conjugated Carboxylic Acid. <i>Chemistry of Materials</i> , 2019, 31, 6224-6230.	6.7	11
23	Experimentally Validated Three-Dimensional Modeling of Organic-Based Sodium-Ion Battery Electrode Manufacturing. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	11
24	Turn-on/turn-off fluorescent hybrid silica nanoparticles. A new promising material for selective anions™ sensing. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 433, 88-94.	4.7	10
25	First Sustainable Aziridination of Olefins Using Recyclable Copper-Immobilized Magnetic Nanoparticles. <i>Synlett</i> , 2019, 30, 563-566.	1.8	10
26	Charge transport in phenazine-fused triphenylene discotic mesogens doped with CdS nanowires. <i>New Journal of Chemistry</i> , 2020, 44, 14872-14878.	2.8	10
27	Mechanistic Understanding of the Interactions and Pseudocapacitance of Multi-Electron Redox Organic Molecules Sandwiched between MXene Layers. <i>Advanced Electronic Materials</i> , 2021, 7, 2001202.	5.1	10
28	SYNTHESIS OF NEW FLUORESCENT $\beta$ -CYCLODEXTRIN SENSOR. <i>Heterocyclic Communications</i> , 2005, 11, .	1.2	7
29	Efficient synthesis of amino-protected calix[4]arenes selectively functionalized with iron chelator ICL670 designed as platform for iron recognition. <i>Tetrahedron</i> , 2011, 67, 2916-2924.	1.9	7
30	Empowering organic-based negative electrode material based on conjugated lithium carboxylate through molecular design. <i>ChemSusChem</i> , 2020, 13, 2321-2327.	6.8	7
31	Calix[4]arene-modified silica nanoparticles for the potentiometric detection of iron (III) in aqueous solution. <i>Comptes Rendus Chimie</i> , 2012, 15, 290-297.	0.5	6
32	Hybrid Electrolytes Based on Optimized Ionic Liquid Quantity Tethered on $ZrO_2$ Nanoparticles for Solid-State Lithium-Ion Conduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 15159-15167.	8.0	6
33	Rapid synthesis of a versatile organic/inorganic hybrid material based on pyrogenic silica. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 83-89.	9.4	5
34	Immobilization of fluorescent chemosensor on pyrogenic silica: A promising device for gaseous detection. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 62-67.	9.4	5
35	Nitroxide supported on nanometric metal oxides as new hybrid catalysts for selective sugar oxidation. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 526-535.	9.4	4
36	Internal structure investigation of pyrogenic modified silica by fluorescent labeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 248-253.	4.7	3

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37	Spectroscopic investigation of the three prototropic forms of a $\beta$ -cyclodextrin-indolizine derivative from its inclusion-cum-charge-transfer complexes. <i>Chemical Physics Letters</i> , 2011, 504, 100-106.	2.6	3
38	Excited state proton transfer assisted fluorescence resonance energy transfer in an inclusion complex of a $\beta$ -CD derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 238, 29-34.	3.9	3
39	Relating Electrochemistry of New Organic Materials for Batteries and Fundamental Understanding through DFT Calculations. <i>Advances in Science and Technology</i> , 0, , .	0.2	3
40	Nitroxide-Grafted Nanometric Metal Oxides for the Catalytic Oxidation of Sugar. <i>ACS Applied Nano Materials</i> , 2019, 2, 5200-5205.	5.0	3
41	Fundamental insight into the interaction between a lithium salt and an inorganic filler for ion mobility using a synergic theoretical-experimental approach. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 734-742.	9.4	3
42	Surface modification of LiFePO <sub>4</sub> nanoparticles through an organic/inorganic hybrid approach and its impact on electrochemical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128952.	4.7	2
43	Poly[ $\frac{1}{4}$ -(naphthalene-2,6-dicarboxylato)-bis(aqualithium)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m288-m288.	0.2	0
44	New Carbazole-Based Organic Electrodes for Next Generation of Sustainable Lithium Batteries. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 347-347.	0.0	0
45	(Invited) Contribution of Organic Molecular Compounds to Electrochemical Energy Storage. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 344-344.	0.0	0
46	Optimization of Disodium Naphthalene Dicarboxylates Negative Electrode for Organic-Inorganic Hybrid Sodium Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 94-94.	0.0	0