

Renaud Demadrille

List of Publications by Year in descending order

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90
papers

3,830
citations

126708

33
h-index

128067

60
g-index

94
all docs

94
docs citations

94
times ranked

6234
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance encapsulation of transparent conductive polymers by spatial atomic layer deposition. <i>Synthetic Metals</i> , 2022, 284, 116995.	2.1	6
2	Des cellules solaires dont la transparence et la production d'énergie s'adaptent aux conditions d'ensoleillement. , 2022, , 28-33.	0.1	0
3	Hidden surface photovoltages revealed by pump probe KPFM. <i>Nanotechnology</i> , 2022, 33, 225401.	1.3	7
4	Electrodeposition of Simonkolleite as a Low-Temperature Route to Crystalline ZnO Films for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2022, 169, 042504.	1.3	0
5	Push-pull organic dyes and dye-catalyst assembly featuring a benzothiadiazole unit for photoelectrochemical hydrogen production. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3565-3572.	2.5	3
6	Benzothiadiazole-based photosensitizers for efficient and stable dye-sensitized solar cells and 8.7% efficiency semi-transparent mini-modules. <i>Sustainable Energy and Fuels</i> , 2021, 5, 144-153.	2.5	48
7	Editors' choice collection on organic photovoltaics: back in the game. <i>Materials Advances</i> , 2021, 2, 1111-1112.	2.6	1
8	Revisiting doping mechanisms of n-type organic materials with N-DMBI for thermoelectric applications: Photo-activation, thermal activation, and air stability. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	23
9	Non-Fullerene Acceptors with an Extended Conjugated Core: Third Components in Ternary Blends for High-Efficiency, Post-Treatment-Free Organic Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3502-3510.	3.6	10
10	Characterization of Photochromic Dye Solar Cells Using Small-Signal Perturbation Techniques. <i>ACS Applied Energy Materials</i> , 2021, 4, 8941-8952.	2.5	6
11	Editors' choice collection on organic photovoltaics: back in the game. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1124-1125.	2.7	1
12	Electrical and Mechanical Properties of Intrinsically Flexible and Stretchable PEDOT Polymers for Thermo-therapy. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5942-5949.	2.0	10
13	Progress in understanding structure and transport properties of PEDOT-based materials: A critical review. <i>Progress in Materials Science</i> , 2020, 108, 100616.	16.0	355
14	Unraveling the mechanism behind air instability in thin semiconducting polymer layers p-doped with molybdenum dithiolene complexes. <i>Synthetic Metals</i> , 2020, 260, 116251.	2.1	6
15	Water content control during solution-based polymerization: a key to reach extremely high conductivity in PEDOT thin films. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17254-17260.	2.7	11
16	Spray-coated PEDOT:OTf films: thermoelectric properties and integration into a printed thermoelectric generator. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2054-2063.	3.2	19
17	Insight into the Degradation Mechanisms of Highly Conductive Poly(3,4-ethylenedioxythiophene) Thin Films. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2686-2695.	2.0	21
18	Photochromic dye-sensitized solar cells with light-driven adjustable optical transmission and power conversion efficiency. <i>Nature Energy</i> , 2020, 5, 468-477.	19.8	120

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19	Impact of Morphology on Charge Carrier Transport and Thermoelectric Properties of N-type FBDOPV-Based Polymers. <i>Advanced Functional Materials</i> , 2020, 30, 2000449.	7.8	33
20	Implementation of data-cube pump-probe KPFM on organic solar cells. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 323-337.	1.5	14
21	Push-Pull Zinc Phthalocyanine Bearing Hexa-Tertiary Substituted Carbazolyl Donor Groups for Dye-Sensitized Solar Cells. <i>Molecules</i> , 2020, 25, 1692.	1.7	11
22	Functional panchromatic BODIPY dyes with near-infrared absorption: design, synthesis, characterization and use in dye-sensitized solar cells. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1758-1768.	1.3	8
23	Increasing the Efficiency of Organic Dye-Sensitized Solar Cells over 10.3% Using Locally Ordered Inverse Opal Nanostructures in the Photoelectrode. <i>Advanced Functional Materials</i> , 2018, 28, 1706291.	7.8	36
24	Bromination of the benzothioxanthene Bloc: toward new π -conjugated systems for organic electronic applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 761-766.	2.7	18
25	An Important Step toward More Efficient and Stable Dye-Sensitized Solar Cells. <i>Chem</i> , 2018, 4, 2267-2268.	5.8	4
26	Visible and near-infrared organic photosensitizers comprising isoindigo derivatives as chromophores: synthesis, optoelectronic properties and factors limiting their efficiency in dye solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10074-10084.	5.2	27
27	Activation Energy of Organic Cation Rotation in $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $\text{CD}_3\text{NH}_3\text{PbI}_3$: Quasi-Elastic Neutron Scattering Measurements and First-Principles Analysis Including Nuclear Quantum Effects. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3969-3977.	2.1	34
28	Alternative Binary and Ternary Metal Oxides for Dye- and Quantum Dot-Sensitized Solar Cells. , 2018, , 85-115.		5
29	Side chain engineering of organic sensitizers for dye-sensitized solar cells: a strategy to improve performances and stability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6122-6130.	5.2	39
30	All-Polymeric Flexible Transparent Heaters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27250-27256.	4.0	108
31	Dithienylpyrazine-based photosensitizers: Effect of swapping a connecting unit on optoelectronic properties and photovoltaic performances. <i>Dyes and Pigments</i> , 2017, 146, 352-360.	2.0	11
32	Electrospun materials for solar energy conversion: innovations and trends. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10173-10197.	2.7	37
33	Structure and Dopant Engineering in PEDOT Thin Films: Practical Tools for a Dramatic Conductivity Enhancement. <i>Chemistry of Materials</i> , 2016, 28, 3462-3468.	3.2	201
34	Synthesis, optoelectronic properties and photovoltaic performances of wide band-gap copolymers based on dibenzosilole and quinoxaline units, rivals to P3HT. <i>Polymer Chemistry</i> , 2016, 7, 4160-4175.	1.9	20
35	Photo-Carrier Multi-Dynamical Imaging at the Nanometer Scale in Organic and Inorganic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31460-31468.	4.0	24
36	High-Resolution Kelvin Probe Force Microscopy Imaging of Interface Dipoles and Photogenerated Charges in Organic Donor-Acceptor Photovoltaic Blends. <i>ACS Nano</i> , 2016, 10, 739-746.	7.3	57

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37	Metal-free organic sensitizers with narrow absorption in the visible for solar cells exceeding 10% efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 2010-2018.	15.6	124
38	Organic dyes for the sensitization of nanostructured ZnO photoanodes: effect of the anchoring functions. <i>RSC Advances</i> , 2015, 5, 68929-68938.	1.7	7
39	On the Photoinduced Charge Carrier Generation within Monolayers of Self-Assembled Organic Donor-Acceptor Dyads. <i>Advanced Materials</i> , 2014, 26, 6416-6422.	11.1	9
40	Low Voltage Operating Field Effect Transistors with Composite In ₂ O ₃ -ZnO-ZnGa ₂ O ₄ Nanofiber Network as Active Channel Layer. <i>ACS Nano</i> , 2014, 8, 2318-2327.	7.3	44
41	Electrodeposited ZnO nanowires as photoelectrodes in solid-state organic dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7472-7480.	1.3	20
42	Fast Responding Exhaled-Breath Sensors Using WO ₃ Hemitubes Functionalized by Graphene-Based Electronic Sensitizers for Diagnosis of Diseases. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9061-9070.	4.0	170
43	Synthesis, optoelectronic and photovoltaic properties of conjugated alternating copolymers incorporating 2,1,3-benzothiadiazole or fluorenone units: a comparative study. <i>RSC Advances</i> , 2014, 4, 15236-15244.	1.7	4
44	A Robust Organic Dye for Dye Sensitized Solar Cells Based on Iodine/Iodide Electrolytes Combining High Efficiency and Outstanding Stability. <i>Scientific Reports</i> , 2014, 4, 4033.	1.6	168
45	Amorphous Zinc Stannate (Zn ₂ SnO ₄) Nanofibers Networks as Photoelectrodes for Organic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 3146-3155.	7.8	67
46	Lanthanide Complexes Based on \hat{I}^2 -Diketonates and a Tetradentate Chromophore Highly Luminescent as Powders and in Polymers. <i>Inorganic Chemistry</i> , 2013, 52, 14382-14390.	1.9	94
47	Fabrication of multiscale electrodes on organic photovoltaic thin films and in situ electrical characterization by nanostencil combined with Qplus AFM. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 021803.	0.6	3
48	A Special Focus on the Photodegradation of 6-Indolino-1-isobutyl-3,3-dimethylspiro[indoline-2,3-[3H]naphtho[2,1-b][1,4]oxazine]. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1048-1052.	2.0	0
49	Influence of polymorphism on charge transport properties in isomers of fluorenone-based liquid crystalline semiconductors. <i>Chemical Communications</i> , 2012, 48, 3209.	2.2	33
50	Self-assembly of highly luminescent lanthanide complexes promoted by pyridine-tetrazolate ligands. <i>Dalton Transactions</i> , 2012, 41, 1268-1277.	1.6	62
51	Work function tuning for flexible transparent electrodes based on functionalized metallic single walled carbon nanotubes. <i>Carbon</i> , 2012, 50, 3459-3464.	5.4	37
52	Qplus AFM driven nanostencil. <i>Review of Scientific Instruments</i> , 2011, 82, 063706.	0.6	6
53	Fluorenone core donor-acceptor donor π -conjugated molecules end-capped with dendritic oligo(thiophene)s: synthesis, liquid crystalline behaviour, and photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 5238.	6.7	67
54	Phosphorescent Binuclear Iridium Complexes Based on Terpyridine-Carboxylate: An Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2011, 50, 8197-8206.	1.9	42

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55	On the Photodegradation of Some 2 <i>H</i> -Chromene Derivatives in Fluid Solution or in Polyurethane Matrix. <i>Bulletin of the Chemical Society of Japan</i> , 2011, 84, 552-561.	2.0	3
56	Local contact potential difference of molecular self-assemblies investigated by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2011, 99, 233102.	1.5	7
57	Atomic force microscopy imaging using a tip-on-chip: Opening the door to integrated near field nanotools. <i>Review of Scientific Instruments</i> , 2010, 81, 093707.	0.6	4
58	Imaging the Carrier Photogeneration in Nanoscale Phase Segregated Organic Heterojunctions by Kelvin Probe Force Microscopy. <i>Nano Letters</i> , 2010, 10, 3337-3342.	4.5	124
59	Failure and Stabilization Mechanisms in Multiply Cycled Conducting Polymers for Energy Storage Devices. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16823-16831.	1.5	23
60	Internal Structure of InP/ZnS Nanocrystals Unraveled by High-Resolution Soft X-ray Photoelectron Spectroscopy. <i>ACS Nano</i> , 2010, 4, 4799-4805.	7.3	93
61	Electroactive materials for organic electronics: preparation strategies, structural aspects and characterization techniques. <i>Chemical Society Reviews</i> , 2010, 39, 2577.	18.7	419
62	Probing the Local Conformation within π -Conjugated One-dimensional Supramolecular Stacks using Frequency Modulation Atomic Force Microscopy. <i>Advanced Materials</i> , 2009, 21, 4124-4129.	11.1	15
63	Remarkable Tuning of the Coordination and Photophysical Properties of Lanthanide Ions in a Series of Tetrazole-Based Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 9458-9476.	1.7	112
64	Multiple Hydrogen-Bond-Assisted Self-Assembly of Semiconductor Nanocrystals on Silicon Surfaces and Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21389-21395.	1.5	6
65	Composites of Double-Walled Carbon Nanotubes with bis-Quaterthiophene-Fluorenone Conjugated Oligomer: Spectroelectrochemical and Photovoltaic Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17347-17354.	1.5	25
66	π -Conjugated Molecular Nanowire Stacks Investigated by Frequency-Modulation Atomic Force Microscopy in the qPlus Configuration. <i>Applied Physics Express</i> , 2009, 2, 091501.	1.1	5
67	Fluorenone-Based Molecules for Bulk Heterojunction Solar Cells: Synthesis, Characterization, and Photovoltaic Properties. <i>Advanced Functional Materials</i> , 2008, 18, 3444-3453.	7.8	91
68	Efficient Sensitization of Lanthanide Luminescence by Tetrazole-Based Polydentate Ligands. <i>Inorganic Chemistry</i> , 2008, 47, 3952-3954.	1.9	89
69	UV-Vis-NIR spectroelectrochemical and in situ conductance studies of unusual stability of n- and p-doped poly(dimethyldioctylquaterthiophene-alt-oxadiazole) under high cathodic and anodic polarizations. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1032-1042.	1.3	26
70	Oligothiophene-functionalized CdSe nanocrystals: preparation and electrochemical properties. <i>Mikrochimica Acta</i> , 2008, 160, 335-344.	2.5	16
71	Two-Dimensional Self-Assemblies of Thiophene-Fluorenone Conjugated Oligomers on Graphite: A Joint STM and Molecular Modeling Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6850-6859.	1.5	38
72	Conjugated alternating copolymer of dialkylquaterthiophene and fluorenone: synthesis, characterisation and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 4661.	6.7	44

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73	Solution versus solid-state electropolymerization of regioregular conjugated fluorenone- θ -thienylene vinylene macromonomers- θ voltammetric and spectroelectrochemical investigations. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1051-1058.	1.2	6
74	Carbodithioate-Containing Oligo- and Polythiophenes for Nanocrystals' Surface Functionalization. <i>Chemistry of Materials</i> , 2006, 18, 4817-4826.	3.2	67
75	Unusually high stability of a poly(alkylquaterthiophene-alt-oxadiazole) conjugated copolymer in its n and p-doped states. <i>Chemical Communications</i> , 2006, , 3299.	2.2	21
76	Polythiophene Derivatives -Based Materials for Organic Field Effect Transistors and Photovoltaic Cells. , 2006, , .		0
77	Unusually stable and highly electrochemically reversible n-doping of regioregular alternate copolymer of dialkylthiophene and fluorenone. <i>Electrochemistry Communications</i> , 2006, 8, 993-998.	2.3	16
78	Comparative study of optoelectronic properties of various Europium complexes used in organic electroluminescent structures. , 2006, , .		2
79	The effect of chain microstructure on electrochemical and spectroelectrochemical properties of fluorenone- θ -dialkyl bithiophene alternate copolymers. <i>Electrochimica Acta</i> , 2005, 50, 1597-1603.	2.6	13
80	Plastic Solar Cells Based on Fluorenone-Containing Oligomers and Regioregular Alternate Copolymers. <i>Advanced Functional Materials</i> , 2005, 15, 1547-1552.	7.8	45
81	Application of a Novel Refinement Method for Accurate Determination of Chemical Diffusion Coefficients in Electroactive Materials by Potential Step Technique. <i>Journal of the Electrochemical Society</i> , 2005, 152, E61.	1.3	36
82	Random and Regioregular Thiophene-Based Copolymers Containing Oligoaniline Side Chains: Synthesis, Spectroscopic and Spectroelectrochemical Investigations. <i>Synthetic Metals</i> , 2005, 153, 137-140.	2.1	10
83	Mixed alkylthiophene-based heterocyclic polymers containing oxadiazole units via electrochemical polymerisation: spectroscopic, electrochemical and spectroelectrochemical properties. <i>New Journal of Chemistry</i> , 2005, 29, 707.	1.4	29
84	Multiscale Scanning Tunneling Microscopy Study of Self-Assembly Phenomena in Two-Dimensional Polycrystals of π -Conjugated Polymers: The Case of Regioregular Poly(dioctylbithiophene-alt-fluorenone). <i>Advanced Materials</i> , 2004, 16, 2087-2092.	11.1	39
85	Spectroscopic characterisation and photodegradation studies of photochromic spiro[fluorene-9,3- θ -[3- θ H]-naphtho[2,1-b]pyrans]. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 143-152.	2.0	29
86	Poly(alkylthiophene) with Pendant Dianiline Groups via Postpolymerization Functionalization: θ Preparation, Spectroscopic, and Spectroelectrochemical Characterization. <i>Macromolecules</i> , 2004, 37, 769-777.	2.2	17
87	Regiochemically Well-Defined Fluorenone- θ Alkylthiophene Copolymers: θ Synthesis, Spectroscopic Characterization, and Their Postfunctionalization with Oligoaniline. <i>Macromolecules</i> , 2003, 36, 7045-7054.	2.2	47
88	Preparation and spectroelectrochemical behaviour of a new alternate copolymer of 3,3- θ -di-n-octyl-2,2- θ -bithiophene and fluorene-9-one. <i>New Journal of Chemistry</i> , 2003, 27, 1479-1484.	1.4	15
89	^1H and ^{13}C NMR chemical shift assignment of some 3H-naphtho[2,1-b]pyrans. <i>Magnetic Resonance in Chemistry</i> , 1999, 37, 328-330.	1.1	1
90	Photochromic Naphthopyran Dyes Incorporating a Benzene, Thiophene, or Furan Spacer: Effect on Photochromic, Optoelectronic, and Photovoltaic Properties in Dye- θ Sensitized Solar Cells. <i>Solar Rrl</i> , 0, , 2100929.	3.1	5