

Jean-Marc Janot

List of Publications by Year in descending order

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80
papers

2,302
citations

186265

28
h-index

233421

45
g-index

80
all docs

80
docs citations

80
times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of single solid state nanopores to mimic biological ion channels: A review. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 195-213.	14.7	125
2	Track-Etched Nanopore/Membrane: From Fundamental to Applications. <i>Small Methods</i> , 2020, 4, 2000366.	8.6	123
3	Photophysical Properties of Three Methanofullerene Derivatives. <i>Chemistry - A European Journal</i> , 1998, 4, 270-278.	3.3	100
4	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 1819-1826.	5.0	82
5	Photophysical properties of three hydrofullerenes. <i>Chemical Physics Letters</i> , 1995, 245, 566-570.	2.6	69
6	Optical limiting and nonlinear optical absorption properties of C ₆₀ -polystyrene star polymer films: C ₆₀ concentration dependence. <i>Journal of Materials Chemistry</i> , 2002, 12, 2071-2076.	6.7	68
7	Adsorption and photophysical properties of fluorescent dyes over montmorillonite and saponite modified by surfactant. <i>Chemosphere</i> , 2017, 184, 1355-1361.	8.2	67
8	Nanopore Functionalized by Highly Charged Hydrogels for Osmotic Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12578-12585.	8.0	66
9	Slow translocation of polynucleotides and their discrimination by \pm -hemolysin inside a single track-etched nanopore designed by atomic layer deposition. <i>Nanoscale</i> , 2013, 5, 9582.	5.6	64
10	Influence of Adsorption on Proteins and Amyloid Detection by Silicon Nitride Nanopore. <i>Langmuir</i> , 2016, 32, 8916-8925.	3.5	61
11	Effects of calcium binding on the internal dynamic properties of bovine brain calmodulin, studied by NMR and optical spectroscopy. <i>Biochemistry</i> , 1992, 31, 3452-3462.	2.5	59
12	PHOTOINITIATED VECTORIAL TRANSMEMBRANE ELECTRON TRANSFER IN BILAYERS SENSITIZED BY A FACE TO FACE TRIPORPHYRIN ACTING AS A MOLECULAR ELECTRONIC DEVICE. AMPLIFICATION DUE TO IONIC COUPLING. <i>Photochemistry and Photobiology</i> , 1991, 54, 123-126.	2.5	56
13	New pigments based on carminic acid and smectites: A molecular investigation. <i>Dyes and Pigments</i> , 2019, 160, 971-982.	3.7	56
14	Combining a sensor and a pH-gated nanopore based on an avidin-biotin system. <i>Chemical Communications</i> , 2015, 51, 5994-5997.	4.1	53
15	New Bioinspired Membrane Made of a Biological Ion Channel Confined into the Cylindrical Nanopore of a Solid-State Polymer. <i>Nano Letters</i> , 2011, 11, 712-716.	9.1	51
16	Mimicking pH-Gated Ionic Channels by Polyelectrolyte Complex Confinement Inside a Single Nanopore. <i>Langmuir</i> , 2017, 33, 3484-3490.	3.5	49
17	When anthraquinone dyes meet pillared montmorillonite: Stability or fading upon exposure to light?. <i>Dyes and Pigments</i> , 2018, 159, 384-394.	3.7	47
18	Physico-chemical characterization of lake pigments based on montmorillonite and carminic acid. <i>Applied Clay Science</i> , 2016, 130, 12-17.	5.2	46

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19	Structure, orientation and stability of lysozyme confined in layered materials. <i>Soft Matter</i> , 2013, 9, 3188.	2.7	42
20	Fast and reversible functionalization of a single nanopore based on layer-by-layer polyelectrolyte self-assembly for tuning current rectification and designing sensors. <i>RSC Advances</i> , 2016, 6, 32228-32233.	3.6	41
21	Enhanced Ionic Transport Mechanism by Gramicidin A Confined Inside Nanopores Tuned by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15306-15315.	3.1	39
22	Protein at liquid solid interfaces: Toward a new paradigm to change the approach to design hybrid protein/solid-state materials. <i>Advances in Colloid and Interface Science</i> , 2019, 270, 278-292.	14.7	39
23	Regulation of dehydrogenases/one-electron transferases by modification of flavin redox potentials. Effect of product binding on semiquinone stabilization in yeast flavocytochrome b2. <i>FEBS Journal</i> , 1986, 155, 491-503.	0.2	37
24	Preparation and characterization of homoionic montmorillonite modified with ionic liquid: Application in dye adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 219-227.	4.7	37
25	Synthesis of new dipyriddyphenylaminosiloles for highly emissive organic electroluminescent devices Dedicated to Professor Robert Corriu on the occasion of his 70th anniversary.. <i>New Journal of Chemistry</i> , 2004, 28, 1086.	2.8	33
26	Dynamics of polymer nanoparticles through a single artificial nanopore with a high-aspect-ratio. <i>Soft Matter</i> , 2014, 10, 8413-8419.	2.7	33
27	Gold nanoparticles for the bare-eye based and spectrophotometric detection of proteins, polynucleotides and DNA. <i>Mikrochimica Acta</i> , 2015, 182, 1223-1229.	5.0	33
28	Structure and antibacterial activity relationships of native and amyloid fibril lysozyme loaded on layered double hydroxide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 10-17.	5.0	32
29	Non-Fluorescence label protein sensing with track-etched nanopore decorated by avidin/biotin system. <i>Electrochimica Acta</i> , 2016, 211, 611-618.	5.2	29
30	[60]Fullerene and three [60]fullerene derivatives in membrane model environments. <i>Perkin Transactions II RSC</i> , 2000, , 301-306.	1.1	27
31	Inhibition of L-lactate: cytochrome-c reductase (flavocytochrome b2) by product binding to the semiquinone transient. Loss of reactivity towards monoelectronic acceptors. <i>FEBS Journal</i> , 1990, 190, 329-342.	0.2	25
32	Fluorescence Quenching of SulfoRhodamine Dye over Graphene Oxide and Boron Nitride Nanosheets. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2125-2130.	2.0	25
33	Detection of short ssDNA and dsDNA by current-voltage measurements using conical nanopores coated with Al ₂ O ₃ by atomic layer deposition. <i>Mikrochimica Acta</i> , 2016, 183, 1011-1017.	5.0	25
34	Adsorption of Alexa-Labeled Bt Toxin on Mica, Glass, and Hydrophobized Glass: Study by Normal Scanning Confocal Fluorescence. <i>Biomacromolecules</i> , 2010, 11, 1661-1666.	5.4	24
35	Controlling potassium selectivity and proton blocking in a hybrid biological/solid-state polymer nanoporous membrane. <i>Nanoscale</i> , 2013, 5, 3961.	5.6	24
36	Involvement of C60 fullerene monomers and aggregates in the photoconductivity of ultrathin bilayer lipid membranes. <i>Synthetic Metals</i> , 1996, 77, 103-106.	3.9	23

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37	Potentialities of confocal fluorescence for investigating protein adsorption on mica and in ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2006, 284, 198-204.	8.2	22
38	Fluorescent Hydroxyflavone-Zeolite Nanoparticles: Ship-in-a-Bottle Synthesis and Photophysical Properties. <i>ChemPhysChem</i> , 2006, 7, 583-589.	2.1	22
39	Photoinduced electron transfer properties of porous polymer membranes doped with the fullerene C60 associated with phospholipids. <i>Journal of Membrane Science</i> , 1994, 91, 259-264.	8.2	21
40	Photophysical properties of the fullerene C60 core of a 6-arm polystyrene star. <i>Chemical Physics Letters</i> , 1999, 302, 103-107.	2.6	21
41	Photophysical properties of novel water soluble fullerene derivatives. <i>Chemical Physics Letters</i> , 2001, 350, 198-205.	2.6	21
42	Optical limiting behaviour of the water-soluble C60/ β -cyclodextrin complex. <i>Chemical Physics Letters</i> , 2000, 318, 488-495.	2.6	20
43	[60]Fullerene immobilized in a thin functionalized polypyrrole film. Basic principles for the elaboration of an oxygen sensor. <i>Materials Science and Engineering C</i> , 2002, 21, 125-129.	7.3	20
44	Machine Learning to Improve the Sensing of Biomolecules by Conical Track-Etched Nanopore. <i>Biosensors</i> , 2020, 10, 140.	4.7	20
45	Supported thin flexible polymethylhydrosiloxane permeable films functionalised with silole groups: new approach for detection of nitroaromatics. <i>Journal of Materials Chemistry</i> , 2010, 20, 7100.	6.7	19
46	Diffusion dynamics of latex nanoparticles coated with ssDNA across a single nanopore. <i>Soft Matter</i> , 2017, 13, 496-502.	2.7	18
47	Unexpected Hard Protein Behavior of BSA on Gold Nanoparticle Caused by Resveratrol. <i>Langmuir</i> , 2018, 34, 8866-8874.	3.5	17
48	Evidence of confinement of fullerene C60 in microporous VPI-5 zeolite. <i>Chemical Physics Letters</i> , 1998, 295, 257-265.	2.6	16
49	Interface of Covalently Bonded Phospholipids with a Phosphorylcholine Head: Characterization, Protein Nonadsorption, and Further Functionalization. <i>Langmuir</i> , 2011, 27, 11536-11544.	3.5	16
50	Going through the wine fining: Intimate dialogue between organics and clays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 79-88.	5.0	16
51	Metal alloy solid-state nanopores for single nanoparticle detection. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12799-12807.	2.8	16
52	Isolation of the flavodehydrogenase domain of <i>Hansenula anomala</i> flavocytochrome b2 after mild proteolysis by an <i>H. anomala</i> proteinase. <i>FEBS Journal</i> , 1989, 182, 67-75.	0.2	15
53	Photophysical properties of C76. <i>Chemical Physics Letters</i> , 1998, 283, 221-226.	2.6	15
54	Highly efficient fluorescent label unquenched by protein interaction to probe the avidin rotational motion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 184, 204-211.	3.9	15

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55	The time resolved fluorescence and anisotropy of subtilisins BPN ² and Carlsberg. Biophysical Chemistry, 1991, 41, 277-287.	2.8	14
56	Photophysical Properties of the Ground and Triplet State of Four Multiphenylated [70]Fullerene Compounds. ChemPhysChem, 2001, 2, 109-114.	2.1	13
57	Structure and ionic selectivity of a hybrid polyene/artificial polymer solid state membrane. Soft Matter, 2013, 9, 684-691.	2.7	13
58	L-Lactate cytochrome c reductase: Rapid kinetic studies of electron transfers within the flavocytochrome b2-cytochrome c assembly. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1016, 165-176.	1.0	11
59	Influence of nanopore surface charge and magnesium ion on polyadenosine translocation. Nanotechnology, 2015, 26, 144001.	2.6	11
60	Subtilisin enzymes: A note on time-resolved fluorescence and circular dichroism properties. FEBS Letters, 1989, 250, 389-394.	2.8	10
61	Modification of redox equilibria between heme and flavin within yeast flavocytochrome b2 (l-lactate) Tj ETQq1 1 0.784314 rgBT /Over	2.6	9
62	Modifications of redox equilibria with semiquinone stabilization upon pyruvate binding to L-lactate cytochrome c oxidoreductase (flavocytochrome b2). Biochemical and Biophysical Research Communications, 1984, 118, 753-759.	2.1	9
63	Photophysical properties of C60Cl6, C60Ph5Cl and C60Ph5H. Synthetic Metals, 1999, 103, 2407-2410.	3.9	8
64	Unexpected ionic transport behavior in hydrophobic and uncharged conical nanopores. Faraday Discussions, 2018, 210, 69-85.	3.2	8
65	Mobility of adsorbed Cry1Aa insecticidal toxin from <i>Bacillus thuringiensis</i> (Bt) on montmorillonite measured by fluorescence recovery after photobleaching (FRAP). Philosophical Magazine, 2010, 90, 2365-2371.	1.6	7
66	Photoinduced electron transfer at an ITO/C60 trapped in a thin polypyrrole film interface. Synthetic Metals, 1996, 82, 129-132.	3.9	6
67	Stability of the gramicidin-A channel structure in view of nanofiltration: a computational and experimental study. Soft Matter, 2011, 7, 10651.	2.7	6
68	Thin phosphatidylcholine films as background surfaces with further possibilities of functionalization for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2013, 101, 189-195.	5.0	6
69	Towards New Insights in the Sterol/Amphotericin Nanochannels Formation: A Molecular Dynamic Simulation Study. Journal of Membrane Biology, 2016, 249, 261-270.	2.1	6
70	Photoluminescence properties of fullerene C60 confined in microporous VPI-5 zeolite.. Synthetic Metals, 1999, 103, 2426-2427.	3.9	5
71	Fluorescence monitoring of trypsin adsorption in layer-by-layer membrane systems. Enzyme and Microbial Technology, 2012, 51, 325-333.	3.2	5
72	Synthesis of Copolymers Containing C60, Cyclododecyl, and Sulfonate Groups: Photophysical Behavior of C60 in Highly Constrained Microenvironments. Chemistry Letters, 1998, 27, 381-382.	1.3	3

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73	One-pot synthesis of fluorescent porous aluminosilicate nanoparticles. Comptes Rendus Chimie, 2005, 8, 1946-1953.	0.5	3
74	Ionic selectivity of nystatin A1 confined in nanoporous track-etched polymer membrane. IET Nanobiotechnology, 2014, 8, 138-142.	3.8	3
75	Confined Nystatin Polyenes in Nanopore Induce Biologic Ionic Selectivity. Journal of Nanomaterials, 2016, 2016, 1-9.	2.7	2
76	Impact of polyelectrolytes on lysozyme properties in colloidal dispersions. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110419.	5.0	2
77	Novel optical sensors for detection of nitroaromatics based on supported thin flexible poly(methylhydrosiloxane) permeable films functionalised with silole groups. Proceedings of SPIE, 2011, , .	0.8	1
78	Large-scale protein/antibody patterning with limiting unspecific adsorption. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	1
79	Synthesis of New Dipyridylphenylaminosiloles for Highly Emissive Organic Electroluminescent Devices.. ChemInform, 2005, 36, no.	0.0	0
80	Protein-Repellent Functionalizable Surfaces Based on Covalently Bonded Phospholipids with Phosphorylcholine Head. ACS Symposium Series, 2012, , 677-692.	0.5	0