

Jean-Marie Devoisselle

List of Publications by Citations

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120
papers

4,260
citations

32
h-index

62
g-index

130
ext. papers

4,722
ext. citations

5.7
avg, IF

5.14
L-index

#	Paper	IF	Citations
120	Fluorescence properties and metabolic features of indocyanine green (ICG) as related to angiography. <i>Survey of Ophthalmology</i> , 2000 , 45, 15-27	6.1	493
119	Inclusion of ibuprofen in mesoporous templated silica: drug loading and release property. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004 , 57, 533-40	5.7	420
118	Magnetic nanoparticles and their applications in medicine. <i>Nanomedicine</i> , 2006 , 1, 157-68	5.6	279
117	Solid-State NMR Study of Ibuprofen Confined in MCM-41 Material. <i>Chemistry of Materials</i> , 2006 , 18, 6382-6390	5.6	222
116	Indocyanine green: physicochemical factors affecting its fluorescence in vivo. <i>Microvascular Research</i> , 1998 , 55, 146-52	3.7	183
115	Ionogels as drug delivery system: one-step sol-gel synthesis using imidazolium ibuprofenate ionic liquid. <i>Chemical Communications</i> , 2010 , 46, 228-30	5.8	136
114	Porous Chitosan-Silica Hybrid Microspheres as a Potential Catalyst. <i>Chemistry of Materials</i> , 2004 , 16, 3367-3372	5.8	136
113	Confinement of Thermoresponsive Hydrogels in Nanostructured Porous Silicon Dioxide Templates. <i>Advanced Functional Materials</i> , 2007 , 17, 1153-1162	15.6	100
112	The potential of ordered mesoporous silica for the storage of drugs: the example of a pentapeptide encapsulated in a MSU-tween 80. <i>ChemPhysChem</i> , 2003 , 4, 281-6	3.2	86
111	The relevance of membrane models to understand nanoparticles-cell membrane interactions. <i>Nanoscale</i> , 2016 , 8, 4780-98	7.7	81
110	Synthesis and characterisation of ibuprofen-anchored MCM-41 silica and silica gel. <i>New Journal of Chemistry</i> , 2003 , 27, 1415-1418	3.6	73
109	In vivo pH measurement and imaging of tumor tissue using a pH-sensitive fluorescent probe (5,6-carboxyfluorescein): instrumental and experimental studies. <i>Photochemistry and Photobiology</i> , 1994 , 60, 274-9	3.6	62
108	Nitrogen sorption as a tool for the characterisation of polysaccharide aerogels. <i>Carbohydrate Polymers</i> , 2011 , 85, 44-53	10.3	56
107	Quercetin topical application, from conventional dosage forms to nanodosage forms. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 108, 41-53	5.7	55
106	Surfactant behavior of ionic liquids involving a drug: from molecular interactions to self-assembly. <i>Langmuir</i> , 2014 , 30, 1229-38	4	53
105	New Layered Double Hydroxides/Phospholipid Bilayer Hybrid Material with Strong Potential for Sustained Drug Delivery System. <i>Chemistry of Materials</i> , 2009 , 21, 2679-2687	9.6	52
104	Liposil, a promising composite material for drug storage and release. <i>Journal of Controlled Release</i> , 2007 , 118, 1-6	11.7	52

103	Preparation and characterization of siliceous material using liposomes as template. <i>Chemical Communications</i> , 2003 , 640-1	5.8	49
102	The timeline of corona formation around silica nanocarriers highlights the role of the protein interactome. <i>Nanoscale</i> , 2017 , 9, 1840-1851	7.7	45
101	Surfactant properties of ionic liquids containing short alkyl chain imidazolium cations and ibuprofenate anions. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15523-9	3.6	44
100	Solid-state NMR characterization of drug-model molecules encapsulated in MCM-41 silica. <i>Pure and Applied Chemistry</i> , 2009 , 81, 1345-1355	2.1	42
99	Dermal quercetin lipid nanocapsules: Influence of the formulation on antioxidant activity and cellular protection against hydrogen peroxide. <i>International Journal of Pharmaceutics</i> , 2017 , 518, 167-176	6.5	41
98	Bordetella pertussis adenylate cyclase toxin translocation across a tethered lipid bilayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20473-8	11.5	40
97	Potentialities of silica/alginate nanoparticles as hybrid magnetic carriers. <i>International Journal of Pharmaceutics</i> , 2007 , 344, 128-34	6.5	39
96	Site-specific methylene blue delivery to pilosebaceous structures using highly porous nylon microspheres: an experimental evaluation. <i>Lasers in Surgery and Medicine</i> , 2003 , 33, 119-25	3.6	39
95	The control of dendritic cell maturation by pH-sensitive polyion complex micelles. <i>Biomaterials</i> , 2009 , 30, 233-41	15.6	38
94	Hierarchical Macroporosity Induced by Constrained Syneresis in Core/Shell Polysaccharide Composites. <i>Chemistry of Materials</i> , 2005 , 17, 4693-4699	9.6	38
93	Characterization of a phospholipid bilayer entrapped into non-porous silica nanospheres. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1316-1320		37
92	Density functional theory-based conformational analysis of a phospholipid molecule (dimyristoyl phosphatidylcholine). <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13433-42	3.4	36
91	Polyelectrolyte complex formation between iota-carrageenan and poly(L-lysine) in dilute aqueous solutions: a spectroscopic and conformational study. <i>Carbohydrate Polymers</i> , 2004 , 55, 37-45	10.3	35
90	Synthesis and characterization of crystalline structures based on phenylboronate ligands bound to alkaline earth cations. <i>Inorganic Chemistry</i> , 2011 , 50, 7802-10	5.1	34
89	Triggered release of aqueous content from liposome-derived sol-gel nanocapsules. <i>Langmuir</i> , 2007 , 23, 12024-31	4	32
88	Self-assembling peptide-based nanoparticles for siRNA delivery in primary cell lines. <i>Small</i> , 2012 , 8, 2184-8	4.8	31
87	Pillaring effects in macroporous carrageenan-silica composite microspheres. <i>Journal of Colloid and Interface Science</i> , 2006 , 294, 109-16	9.3	31
86	Liposomes, lipid nanocapsules and smartCrystals: A comparative study for an effective quercetin delivery to the skin. <i>International Journal of Pharmaceutics</i> , 2018 , 542, 176-185	6.5	28

85	Sol-gel one-pot synthesis in soft conditions of mesoporous silica materials ready for drug delivery system. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 61, 455-462	2.3	28
84	pH-sensitive double-hydrophilic block copolymer micelles for biological applications. <i>International Journal of Pharmaceutics</i> , 2009 , 379, 212-7	6.5	28
83	Synthesis of polyoxazolines using glycerol carbonate derivative and end chains functionalization via carbonate and isocyanate routes. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 4027-4035	2.5	28
82	Experimental separation steps influence the protein content of corona around mesoporous silica nanoparticles. <i>Nanoscale</i> , 2017 , 9, 5769-5772	7.7	27
81	New solid lipid microparticles for controlled ibuprofen release: formulation and characterization study. <i>International Journal of Pharmaceutics</i> , 2012 , 422, 59-67	6.5	27
80	Post-production modifications of murine mesenchymal stem cell (mMSC) derived extracellular vesicles (EVs) and impact on their cellular interaction. <i>Biomaterials</i> , 2020 , 231, 119675	15.6	27
79	Fluorescence spectroscopy of pH in vivo using a dual-emission fluorophore (C-SNAFL-1). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995 , 28, 19-23	6.7	26
78	Entrapment of gadolinium-DTPA in liposomes. Characterization of vesicles by P-31 NMR spectroscopy. <i>Investigative Radiology</i> , 1988 , 23, 719-24	10.1	26
77	Selective laser photocoagulation of blood vessels in a hamster skin flap model using a specific ICG formulation. <i>Lasers in Surgery and Medicine</i> , 1997 , 21, 365-73	3.6	25
76	On-line direct determination of the second virial coefficient of a natural polysaccharide using size-exclusion chromatography and multi-angle laser light scattering. <i>Journal of Chromatography A</i> , 2002 , 943, 147-52	4.5	25
75	The species origin of the serum in the culture medium influences the in vitro toxicity of silica nanoparticles to HepG2 cells. <i>PLoS ONE</i> , 2017 , 12, e0182906	3.7	24
74	Synthesis, decoration, and cellular effects of magnetic mesoporous silica nanoparticles. <i>RSC Advances</i> , 2016 , 6, 57275-57283	3.7	24
73	Continuous planar phospholipid bilayer supported on porous silicon thin film reflector. <i>Ultramicroscopy</i> , 2007 , 107, 1048-52	3.1	24
72	Probing the mobility of ibuprofen confined in MCM-41 materials using MAS-PFG NMR and hyperpolarised-(129)Xe NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18805-8	3.6	23
71	Phase behavior of reverse microemulsions based on Peceol(®). <i>Journal of Colloid and Interface Science</i> , 2014 , 416, 139-46	9.3	22
70	Characterization of tumorous and normal tissue using a pH-sensitive fluorescence indicator (5,6-carboxyfluorescein) in vivo. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992 , 13, 307-14	6.7	22
69	A preliminary study of the in vivo behaviour of an emulsion formulation of indocyanine green. <i>Lasers in Medical Science</i> , 1998 , 13, 279-82	3.1	21
68	Study of platelet behavior in vivo after endothelial stimulation with laser irradiation using fluorescence intravital videomicroscopy and PEGylated liposome staining. <i>Microvascular Research</i> , 2002 , 64, 316-25	3.7	20

67	Cross-Linked Castor Oil-Based Hybrid Microparticles as Drug Delivery Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4311-4319	8.3	19
66	Biocompatibility assessment of functionalized magnetic mesoporous silica nanoparticles in human HepaRG cells. <i>Nanotoxicology</i> , 2017 , 11, 871-890	5.3	19
65	Biological Fate of Fe ₃ O ₄ Core-Shell Mesoporous Silica Nanoparticles Depending on Particle Surface Chemistry. <i>Nanomaterials</i> , 2017 , 7,	5.4	19
64	Drug delivery systems based on pharmaceutically active ionic liquids and biocompatible poly(lactic acid). <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3133-3141	7.3	19
63	Tripartite polyionic complex (PIC) micelles as non-viral vectors for mesenchymal stem cell siRNA transfection. <i>Biomaterials Science</i> , 2017 , 5, 1910-1921	7.4	19
62	One step synthesis of gold-loaded radial mesoporous silica nanospheres and supported lipid bilayer functionalization: towards bio-multifunctional sensors. <i>Small</i> , 2012 , 8, 3674-82	11	18
61	Water solubilization capacity of pharmaceutical microemulsions based on Peceol [®] , lecithin and ethanol. <i>International Journal of Pharmaceutics</i> , 2014 , 475, 324-34	6.5	17
60	Implication of Water Molecules at the Silica/Ibuprofen Interface in Silica-Based Drug Delivery Systems Obtained through Incipient Wetness Impregnation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26833-26839	3.8	17
59	Thermal damage assessment of blood vessels in a hamster skin flap model by fluorescence measurement of a liposome-dye system. <i>Lasers in Surgery and Medicine</i> , 1997 , 20, 131-41	3.6	17
58	Lipid thermodynamics: melting is molecular. <i>ChemPhysChem</i> , 2008 , 9, 2321-4	3.2	17
57	Thick collagen-based 3D matrices including growth factors to induce neurite outgrowth. <i>Acta Biomaterialia</i> , 2012 , 8, 3302-12	10.8	16
56	Development of tripartite polyion micelles for efficient peptide delivery into dendritic cells without altering their plasticity. <i>Journal of Controlled Release</i> , 2011 , 154, 156-63	11.7	16
55	Liquid Crystals and Colloids in Water/Amiodarone Systems. <i>Langmuir</i> , 1998 , 14, 542-546	4	16
54	Formulation, physicochemical characterization and stability study of lithium-loaded microemulsion system. <i>International Journal of Pharmaceutics</i> , 2016 , 502, 117-24	6.5	15
53	Drug nano-domains in spray-dried ibuprofen-silica microspheres. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12285-94	3.6	15
52	Diode laser-induced thermal damage evaluation on the retina with a liposome dye system. <i>Lasers in Surgery and Medicine</i> , 1999 , 24, 61-8	3.6	15
51	Measurement of in vivo tumorous/normal tissue pH by localized spectroscopy using a fluorescent marker. <i>Optical Engineering</i> , 1993 , 32, 239	1.1	14
50	Microgels of silylated HPMC as a multimodal system for drug co-encapsulation. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 790-801	6.5	13

49	Polyoxazolines based mixed micelles as PEG free formulations for an effective quercetin antioxidant topical delivery. <i>International Journal of Pharmaceutics</i> , 2019 , 570, 118516	6.5	12
48	Polymeric micelles based on poly(methacrylic acid) block-containing copolymers with different membrane destabilizing properties for cellular drug delivery. <i>International Journal of Pharmaceutics</i> , 2013 , 454, 611-20	6.5	12
47	Laser-Induced Release of Liposome-Encapsulated Dye: A New Diagnostic Tool. <i>Lasers in Medical Science</i> , 1998 , 13, 181-188	3.1	12
46	Liposomes containing fluorinated steroids: an analysis based on photon correlation and fluorine-19 nuclear magnetic resonance spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 1992 , 81, 249-54	3.9	12
45	Tuning nanophase separation and drug delivery kinetics through spray drying and self-assembly. <i>New Journal of Chemistry</i> , 2010 , 34, 607	3.6	11
44	In vivo behaviour of long-circulating liposomes in blood vessels in hamster inflammation and septic shock models-use of intravital fluorescence microscopy. <i>Luminescence</i> , 2001 , 16, 73-8	2.5	11
43	Laser-induced release of liposome-encapsulated dye to monitor tissue temperature: a preliminary in vivo study. <i>Lasers in Surgery and Medicine</i> , 1995 , 16, 246-52	3.6	11
42	Grafting of monoglyceride molecules for the design of hydrophilic and stable porous silicon surfaces. <i>New Journal of Chemistry</i> , 2010 , 34, 29-33	3.6	10
41	Fluorescence imaging method for in vivo pH monitoring during liposomes uptake in rat liver using a pH-sensitive fluorescent dye. <i>Journal of Biomedical Optics</i> , 2005 , 10, 024008	3.5	10
40	Development of pharmaceutical clear gel based on Peceol, lecithin, ethanol and water: Physicochemical characterization and stability study. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 152-61	9.3	9
39	Encapsulation of complementary model drugs in spray-dried nanostructured materials. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 68, 307-316	2.3	9
38	Tripartite siRNA micelles as controlled delivery systems for primary dendritic cells. <i>Drug Development and Industrial Pharmacy</i> , 2009 , 35, 950-8	3.6	9
37	Self-encapsulation of a drug-containing ionic liquid into mesoporous silica monoliths or nanoparticles by a sol-gel process. <i>RSC Advances</i> , 2016 , 6, 82916-82923	3.7	9
36	Synergic effect of doxorubicin release and two-photon irradiation of Mn-doped Prussian blue nanoparticles on cancer therapy.. <i>RSC Advances</i> , 2020 , 10, 2646-2649	3.7	8
35	In Vivo Application of Intestinal pH Measurement Using 2,7-Bis(carboxyethyl)-5,6-carboxyfluorescein (BCECF) Fluorescence Imaging. <i>Photochemistry and Photobiology</i> , 1999 , 70, 813-819	3.6	8
34	Biosafety of Mesoporous Silica Nanoparticles. <i>Biomimetics</i> , 2018 , 3,	3.7	8
33	Recent advances and prospects in nano drug delivery systems using lipopolyoxazolines. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119536	6.5	7
32	Polyoxazolines based lipid nanocapsules for topical delivery of antioxidants. <i>International Journal of Pharmaceutics</i> , 2020 , 579, 119126	6.5	7

31	Tunable vegetable oil/silica hybrid microparticles for poorly water-soluble drug delivery. <i>International Journal of Pharmaceutics</i> , 2019 , 567, 118478	6.5	7
30	201Tl-labeled Prussian blue and Au@Prussian blue nanoprobe for SPEC-CT imaging: influence of the size, shape and coating on the biodistribution. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1737-1741	6.8	7
29	Noninvasive fluorescent study in situ and in real time of glucose effects on the pharmacokinetic of calcein. <i>Journal of Biomedical Optics</i> , 2002 , 7, 609-12	3.5	7
28	Interest of extracellular vesicles in regards to lipid nanoparticle based systems for intracellular protein delivery. <i>Advanced Drug Delivery Reviews</i> , 2021 , 176, 113837	18.5	7
27	Relationship between conformation of polysaccharides -in the dilute regime and their interaction with a phospholipid bilayer. <i>Luminescence</i> , 2001 , 16, 109-16	2.5	6
26	Effect of indocyanin green formulation on blood clearance and in vivo fluorescence kinetic profile of skin 1995 , 2627, 100		6
25	A preliminary study of tumour detection by a pH-dependent fluorescent probe in vivo. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991 , 9, 219-28	6.7	6
24	Combining sol-gel and microfluidics processes for the synthesis of protein-containing hybrid microgels. <i>Chemical Communications</i> , 2019 , 55, 13112-13115	5.8	6
23	Versatile polyion complex micelles for peptide and siRNA vectorization to engineer tolerogenic dendritic cells. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 92, 216-27	5.7	5
22	New approach for the selective chemical functionalization of porous silicon films with organic monolayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1326-1329	1.6	5
21	Fluorescent characteristics and pharmacokinetic profiles of the fluorescent probe BCECF in various tissues: the role of blood content. <i>Photochemistry and Photobiology</i> , 1996 , 64, 906-10	3.6	5
20	Fluorescence measurement of 805 nm laser-induced release of 5,6-CF from DSPC liposomes for real-time monitoring of temperature: an in vivo study in rat liver using indocyanine green potentiation. <i>Lasers in Surgery and Medicine</i> , 1996 , 18, 265-70	3.6	5
19	Liposome-mediated delivery of gadolinium-diethylenetriaminopentaacetic acid to hepatic cells: a P-31 NMR study. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1989 , 250, 1113-8	4.7	5
18	Nanotechnologies for Intracellular Protein Delivery: Recent Progress in Inorganic and Organic Nanocarriers. <i>Advanced Therapeutics</i> , 2021 , 4, 2100009	4.9	5
17	A simple approach for controlled deposition of Prussian blue analogue nanoparticles on a functionalised plasmonic gold surface. <i>New Journal of Chemistry</i> , 2019 , 43, 3660-3664	3.6	4
16	Quantitative fluorescein angiography following diode laser retinal photocoagulation. <i>Lasers in Surgery and Medicine</i> , 1999 , 24, 338-45	3.6	3
15	Synthesis and Properties of New Multilayer Chitosan@layered Double Hydroxide/Drug Loaded Phospholipid Bilayer Nanocomposite Bio-Hybrids. <i>Materials</i> , 2020 , 13,	3.5	3
14	Nanoheterostructures based on nanosized Prussian blue and its Analogues: Design, properties and applications. <i>Coordination Chemistry Reviews</i> , 2022 , 461, 214497	23.2	3

13	Fluorescence of experimental endometriosis in rabbits, using tamoxifen-eosin association. <i>Human Reproduction</i> , 1995 , 10, 927-31	5.7	2
12	Experimental evaluation of site-specific delivery of methylene blue to the hair follicles using fluorescence imaging 2002 , 4609, 37		1
11	Influence of Two Salicylate Components on the Particle Size of an Oil-in-Water Emulsion with Nonionic Surfactants. <i>Drug Development and Industrial Pharmacy</i> , 1996 , 22, 1193-1199	3.6	1
10	In-vivo and ex-vivo spectrofluorometric and imaging study of liposome uptake by the liver using a pH-sensitive probe 1995 , 2387, 124		1
9	A Novel Approach to the Facile Growth and Organization of Photothermal Prussian Blue Nanocrystals on Different Surfaces. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
8	Encapsulation of BSA in hybrid PEG hydrogels: stability and controlled release.. <i>RSC Advances</i> , 2021 , 11, 30887-30897	3.7	1
7	Ladder-like aminopropylsilsesquioxane. A nice alternative for controlled drug delivery. <i>RSC Advances</i> , 2013 , 3, 8160	3.7	0
6	A rational study of the influence of Mn-insertion in Prussian blue nanoparticles on their photothermal properties. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9670-9683	7.3	0
5	Vegetable oil-based hybrid microparticles as a green and biocompatible system for subcutaneous drug delivery. <i>International Journal of Pharmaceutics</i> , 2021 , 592, 120070	6.5	0
4	21. Voltage- and calcium-dependent translocation of Bordetella pertussis adenylate cyclase (CyaA) toxin across a tethered lipid bilayer. <i>Toxicon</i> , 2014 , 91, 173	2.8	
3	Behavior of platelets stained by 5,6-CF-encapsulated PEGylated liposomes after laser irradiation of vessel wall: an in-vivo model for studying site-selective delivery of diagnostic or therapeutic agents 2001 , 4260, 20		
2	In-vivo fluorescence imaging of normal and tumorous tissue using a pH-sensitive probe 1994 , 2135, 56		
1	Vegetable Oil-based Hybrid Submicron Particles Loaded with JMV5038: A Promising Formulation against Melanoma. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 1197-1205	3.9	