

# Jean-Hugues Renault

## List of Publications by Year in descending order

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91  
papers

3,439  
citations

159585

30  
h-index

155660

55  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis, metabolism, molecular engineering, and biological functions of stilbene phytoalexins in plants. <i>BioFactors</i> , 2010, 36, 331-341.	5.4	214
2	Bacterial rhamnolipids are novel MAMPs conferring resistance to <i>Botrytis cinerea</i> in grapevine. <i>Plant, Cell and Environment</i> , 2009, 32, 178-193.	5.7	192
3	Bioproduction of resveratrol and stilbene derivatives by plant cells and microorganisms. <i>Trends in Biotechnology</i> , 2009, 27, 706-713.	9.3	189
4	Dereplication strategies in natural product research: How many tools and methodologies behind the same concept?. <i>Phytochemistry Reviews</i> , 2017, 16, 55-95.	6.5	178
5	Accelerating Metabolite Identification in Natural Product Research: Toward an Ideal Combination of Liquid Chromatography-High-Resolution Tandem Mass Spectrometry and NMR Profiling, in <i>Silico</i> Databases, and Chemometrics. <i>Analytical Chemistry</i> , 2019, 91, 704-742.	6.5	165
6	Modulation of Phytoalexin Biosynthesis in Engineered Plants for Disease Resistance. <i>International Journal of Molecular Sciences</i> , 2013, 14, 14136-14170.	4.1	139
7	Molecular engineering of resveratrol in plants. <i>Plant Biotechnology Journal</i> , 2009, 7, 2-12.	8.3	134
8	The stimulating adventure of KRN 7000. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3080.	2.8	124
9	Rhamnolipids Elicit Defense Responses and Induce Disease Resistance against Biotrophic, Hemibiotrophic, and Necrotrophic Pathogens That Require Different Signaling Pathways in <i>Arabidopsis</i> and Highlight a Central Role for Salicylic Acid. <i>Plant Physiology</i> , 2012, 160, 1630-1641.	4.8	115
10	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019, 36, 35-107.	10.3	92
11	Multiple dual-mode centrifugal partition chromatography, a semi-continuous development mode for routine laboratory-scale purifications. <i>Journal of Chromatography A</i> , 2006, 1127, 45-51.	3.7	87
12	Identification of Natural Metabolites in Mixture: A Pattern Recognition Strategy Based on <sup>13</sup> C NMR. <i>Analytical Chemistry</i> , 2014, 86, 2955-2962.	6.5	76
13	Resveratrol production at large scale using plant cell suspensions. <i>Engineering in Life Sciences</i> , 2014, 14, 622-632.	3.6	61
14	Discovery of New Inhibitors of <i>Toxoplasma gondii</i> via the Pathogen Box. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	59
15	Isolation of indole alkaloids from <i>Catharanthus roseus</i> by centrifugal partition chromatography in the pH-zone refining mode. <i>Journal of Chromatography A</i> , 1999, 849, 421-431.	3.7	56
16	Phytostilbenes as agrochemicals: biosynthesis, bioactivity, metabolic engineering and biotechnology. <i>Natural Product Reports</i> , 2021, 38, 1282-1329.	10.3	56
17	Whole-cell biocatalytic, enzymatic and green chemistry methods for the production of resveratrol and its derivatives. <i>Biotechnology Advances</i> , 2020, 39, 107461.	11.7	55
18	Preparative separation of anthocyanins by gradient elution centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 1997, 763, 345-352.	3.7	52

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19	Anti-Cancer Activity of Resveratrol and Derivatives Produced by Grapevine Cell Suspensions in a 14 L Stirred Bioreactor. <i>Molecules</i> , 2017, 22, 474.	3.8	50
20	Dammarane saponins from <i>Zizyphus lotus</i> . <i>Phytochemistry</i> , 1997, 44, 1321-1327.	2.9	47
21	Engineering stilbene metabolic pathways in microbial cells. <i>Biotechnology Advances</i> , 2018, 36, 2264-2283.	11.7	47
22	Rational improvement of centrifugal partition chromatographic settings for the production of 5-n-alkylresorcinols from wheat bran lipid extract. <i>Journal of Chromatography A</i> , 2003, 1005, 51-62.	3.7	46
23	An integrated process for the recovery of high added-value compounds from olive oil using solid support free liquid-liquid extraction and chromatography techniques. <i>Journal of Chromatography A</i> , 2017, 1491, 126-136.	3.7	41
24	Novel seco-Dibenzopyrrocoline Alkaloid from <i>Cryptocarya oubatchensis</i> . <i>Organic Letters</i> , 2006, 8, 3825-3828.	4.6	40
25	Computer-Aided <sup>13</sup> C NMR Chemical Profiling of Crude Natural Extracts without Fractionation. <i>Journal of Natural Products</i> , 2017, 80, 1387-1396.	3.0	40
26	Removal of pesticides from wastewater by ion pair Centrifugal Partition Extraction using betaine-derived ionic liquids as extractants. <i>Chemical Engineering Journal</i> , 2016, 285, 596-604.	12.7	37
27	Bio-Guided Isolation of Methanol-Soluble Metabolites of Common Spruce ( <i>Picea abies</i> ) Bark by-Products and Investigation of Their Dermo-Cosmetic Properties. <i>Molecules</i> , 2016, 21, 1586.	3.8	35
28	Industrial case study on alkaloids purification by pH-zone refining centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2016, 1474, 59-70.	3.7	34
29	Methodology for optimally sized centrifugal partition chromatography columns. <i>Journal of Chromatography A</i> , 2015, 1388, 174-183.	3.7	33
30	In Vitro Dermo-Cosmetic Evaluation of Bark Extracts from Common Temperate Trees. <i>Planta Medica</i> , 2016, 82, 1351-1358.	1.3	33
31	Use of grapevine cell cultures for the production of phytostilbenes of cosmetic interest. <i>Comptes Rendus Chimie</i> , 2016, 19, 1062-1070.	0.5	31
32	Two new bis-iridoids isolated from <i>Scabiosa stellata</i> and their antibacterial, antioxidant, anti-tyrosinase and cytotoxic activities. <i>FÄ-toterapÄ-Ät</i> , 2018, 125, 41-48.	2.2	29
33	<sup>13</sup> C NMR and LC-MS Profiling of Stilbenes from Elicited Grapevine Hairy Root Cultures. <i>Journal of Natural Products</i> , 2016, 79, 2846-2855.	3.0	28
34	Enzymatic Synthesis of Resveratrol Î±-Glycosides from Î²-Cyclodextrin-Resveratrol Complex in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5370-5380.	6.7	28
35	Glycerol and glycerol carbonate as ultraviscous solvents for mixture analysis by NMR. <i>Journal of Magnetic Resonance</i> , 2011, 212, 161-168.	2.1	26
36	Dereplication of depsides from the lichen <i>Pseudevernia furfuracea</i> by centrifugal partition chromatography combined to <sup>13</sup> C nuclear magnetic resonance pattern recognition. <i>Analytica Chimica Acta</i> , 2014, 846, 60-67.	5.4	25

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37	Bacterial rhamnolipids and their 3-hydroxyalkanoate precursors activate <i>Arabidopsis</i> innate immunity through two independent mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
38	Strong ion-exchange centrifugal partition chromatography as an efficient method for the large-scale purification of glucosinolates. Journal of Chromatography A, 2007, 1170, 44-51.	3.7	24
39	Strong ion exchange in centrifugal partition extraction (SIX-CPE): Effect of partition cell design and dimensions on purification process efficiency. Journal of Chromatography A, 2012, 1247, 18-25.	3.7	24
40	Preparative isolation of huperzines A and B from <i>Huperzia serrata</i> by displacement centrifugal partition chromatography. Journal of Chromatography A, 2007, 1140, 101-106.	3.7	23
41	Intensified extraction of ionized natural products by ion pair centrifugal partition extraction. Journal of Chromatography A, 2011, 1218, 5254-5262.	3.7	23
42	Purification of antibiotics from the biocontrol agent <i>Streptomyces anulatus</i> S37 by centrifugal partition chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 944, 30-34.	2.3	23
43	Isolation of Flavonoids and Triterpenoids from the Fruits of <i>Alphitonia Neocaledonica</i> and Evaluation of their Antioxidant, Antityrosinase and Cytotoxic Activities. Phytochemical Analysis, 2015, 26, 137-144.	2.4	23
44	Bioactivity-guided identification of antimicrobial metabolites in <i>Alnus glutinosa</i> bark and optimization of oregonin purification by Centrifugal Partition Chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1029-1030, 121-127.	2.3	23
45	Optimize, Modulate, and Scale-up Resveratrol and Resveratrol Dimers Bioproduction in <i>Vitis labrusca</i> L. Cell Suspension from Flasks to 20 L Bioreactor. Plants, 2019, 8, 567.	3.5	22
46	Anion-Exchange Displacement Centrifugal Partition Chromatography. Analytical Chemistry, 2004, 76, 6179-6186.	6.5	21
47	Simultaneous presence of unsaturation and long alkyl chain at P1 <sup>2</sup> of Ilomastat confers selectivity for gelatinase A (MMP-2) over gelatinase B (MMP-9) inhibition as shown by molecular modelling studies. Bioorganic and Medicinal Chemistry, 2007, 15, 4753-4766.	3.0	20
48	Acidolysis of a lignin model: Investigation of heterogeneous catalysis using Montmorillonite clay. Bioresource Technology, 2010, 101, 736-744.	9.6	20
49	Pilot continuous centrifugal liquid-liquid extraction of extra virgin olive oil biophenols and gram-scale recovery of pure oleocanthal, oleacein, MFOA, MFLA and hydroxytyrosol. Separation and Purification Technology, 2021, 255, 117692.	7.9	20
50	Resveratrol and cyclodextrins, an easy alliance: Applications in nanomedicine, green chemistry and biotechnology. Biotechnology Advances, 2021, 53, 107844.	11.7	20
51	New perspectives for microbial glycolipid fractionation and purification processes. Comptes Rendus Chimie, 2012, 15, 18-28.	0.5	19
52	Exploiting the Complementarity between Dereplication and Computer-Assisted Structure Elucidation for the Chemical Profiling of Natural Cosmetic Ingredients: <i>Tephrosia purpurea</i> as a Case Study. Journal of Natural Products, 2015, 78, 1609-1617.	3.0	19
53	Chemical Profile and Antimicrobial Activity of the Fungus-Growing Termite Strain <i>Macrotermes Bellicosus</i> Used in Traditional Medicine in the Republic of Benin. Molecules, 2020, 25, 5015.	3.8	19
54	Concentration and selective fractionation of an antihypertensive peptide from an alfalfa white proteins hydrolysate by mixed ion-exchange centrifugal partition chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 905, 23-30.	2.3	18

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55	Stepwise Elution of a Three-Phase Solvent System in Centrifugal Partition Extraction: A New Strategy for the Fractionation and Phytochemical Screening of a Crude Bark Extract. <i>Phytochemical Analysis</i> , 2013, 24, 367-373.	2.4	18
56	Advanced NMR-Based Structural Investigation of Glucosinolates and Desulfoglucosinolates. <i>Journal of Natural Products</i> , 2018, 81, 323-334.	3.0	18
57	Pilot-scale ion-exchange centrifugal partition chromatography: Purification of sinalbin from white mustard seeds. <i>Journal of Separation Science</i> , 2009, 32, 1801-1807.	2.5	17
58	Fast Identification of Radical Scavengers from <i>Securigera varia</i> by Combining <sup>13</sup> C-NMR-Based Dereplication to Bioactivity-Guided Fractionation. <i>Molecules</i> , 2015, 20, 14970-14984.	3.8	17
59	Nuclear magnetic resonance monitoring of centrifugal partition chromatography in pH-zone-refining mode. <i>Journal of Chromatography A</i> , 1997, 766, 255-260.	3.7	16
60	The Three Pillars of Natural Product Dereplication. Alkaloids from the Bulbs of <i>Urceolina peruviana</i> (C. Presl) J.F. Macbr. as a Preliminary Test Case. <i>Molecules</i> , 2021, 26, 637.	3.8	16
61	Ion-exchange centrifugal partition chromatography: A methodological approach for peptide separation. <i>Journal of Chromatography A</i> , 2012, 1236, 115-122.	3.7	15
62	Modeling pH-zone refining countercurrent chromatography: A dynamic approach. <i>Journal of Chromatography A</i> , 2015, 1391, 80-87.	3.7	15
63	Fractionation of low-molecular-mass heparin by centrifugal partition chromatography in the ion-exchange displacement mode. <i>Journal of Chromatography A</i> , 2001, 918, 47-57.	3.7	14
64	Chapter 3 Solvent systems. <i>Comprehensive Analytical Chemistry</i> , 2002, , 49-83.	1.3	14
65	Centrifugal partition extraction in the pH-zone-refining displacement mode: An efficient strategy for the screening and isolation of biologically active phenolic compounds. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 937, 7-12.	2.3	14
66	Purification of a modified cyclosporine A by co-current centrifugal partition chromatography: Process development and intensification. <i>Journal of Chromatography A</i> , 2013, 1311, 72-78.	3.7	14
67	GABA and GABA-Alanine from the Red Microalgae <i>Rhodorus marinus</i> Exhibit a Significant Neuro-Soothing Activity through Inhibition of Neuro-Inflammation Mediators and Positive Regulation of TRPV1-Related Skin Sensitization. <i>Marine Drugs</i> , 2018, 16, 96.	4.6	14
68	Preparative isolation of glucosinolates from various edible plants by strong ion-exchange centrifugal partition chromatography. <i>Separation and Purification Technology</i> , 2011, 83, 15-22.	7.9	13
69	Reconstruction of HMBC Correlation Networks: A Novel NMR-Based Contribution to Metabolite Mixture Analysis. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 262-270.	5.4	13
70	Abundant Extractable Metabolites from Temperate Tree Barks: The Specific Antimicrobial Activity of <i>Prunus Avium</i> Extracts. <i>Antibiotics</i> , 2020, 9, 111.	3.7	13
71	Cytotoxicity of Labruscol, a New Resveratrol Dimer Produced by Grapevine Cell Suspensions, on Human Skin Melanoma Cancer Cell Line HT-144. <i>Molecules</i> , 2017, 22, 1940.	3.8	12
72	Intensified Separation of Steviol Glycosides from a Crude Aqueous Extract of <i>Stevia rebaudiana</i> Leaves Using Centrifugal Partition Chromatography. <i>Planta Medica</i> , 2015, 81, 1614-1620.	1.3	11

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73	Computer-aided Dereplication and Structure Elucidation of Natural Products at the University of Reims. <i>Molecular Informatics</i> , 2017, 36, 1700027.	2.5	11
74	New biphasic solvent system based on cyclopentyl methyl ether for the purification of a non-polar synthetic peptide by pH-zone refining centrifugal partition chromatography. <i>Journal of Separation Science</i> , 2014, 37, 1222-1228.	2.5	9
75	Investigation of Antiparasitic Activity of 10 European Tree Bark Extracts on <i>Toxoplasma gondii</i> and Bioguided Identification of Triterpenes in <i>Alnus glutinosa</i> Barks. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, AAC0109821.	3.2	8
76	Two novel solvent system compositions for protected synthetic peptide purification by centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2014, 1337, 155-161.	3.7	7
77	Use of the NEO strategy (Nucleophilic addition/Epoxyde Opening) for the synthesis of a new C-galactoside ester analogue of KRN 7000. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2510-2514.	2.2	6
78	Purification of dirucotide, a synthetic 17-aminoacid peptide, by ion exchange centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2017, 1513, 78-83.	3.7	6
79	First Total Synthesis of (1 <sup>2</sup> -5)-(1 <sup>2</sup> -O-4) Dihydroxytrimer and Dihydrotrimer of Coniferyl Alcohol (G): Advanced Lignin Model Compounds. <i>Frontiers in Chemistry</i> , 2019, 7, 842.	3.6	6
80	AMIDE v2: High-Throughput Screening Based on AutoDock-GPU and Improved Workflow Leading to Better Performance and Reliability. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7489.	4.1	6
81	Gradient elution method in centrifugal partition chromatography for the separation of a complex sophorolipid mixture obtained from <i>Candida bombicola</i> yeasts. <i>Journal of Separation Science</i> , 2013, 36, 1362-1369.	2.5	5
82	Implementation of an Enzyme Membrane Reactor to Intensify the O-Glycosylation of Resveratrol Using Cyclodextrins. <i>Pharmaceuticals</i> , 2021, 14, 319.	3.8	5
83	Dereplication of Natural Extracts Diluted in Glycerin: Physical Suppression of Glycerin by Centrifugal Partition Chromatography Combined with Presaturation of Solvent Signals in <sup>13</sup> C-Nuclear Magnetic Resonance Spectroscopy. <i>Molecules</i> , 2020, 25, 5061.	3.8	4
84	Anti- <i>Toxoplasma gondii</i> effect of lupane-type triterpenes from the bark of black alder ( <i>Alnus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	4
85	Schinus terebinthifolius countercurrent chromatography (Part III): Method transfer from small countercurrent chromatography column to preparative centrifugal partition chromatography ones as a part of method development. <i>Journal of Chromatography A</i> , 2017, 1487, 77-82.	3.7	3
86	Multiple solvent signal presaturation and decoupling artifact removal in <sup>13</sup> C{ <sup>1</sup> H} nuclear magnetic resonance. <i>Magnetic Resonance</i> , 2020, 1, 155-164.	1.9	3
87	Study of a specific lignin model: <sup>13</sup> Oxidation and how it influences the hydrolysis efficiency of alcohol-aldehyde dehydrogenation copolymers. <i>Bioresource Technology</i> , 2011, 102, 5567-5573.	9.6	2
88	Polyphenol Purification by Solid Support-Free Liquid-Liquid Chromatography (CCC, CPC)., 2013, , 2145-2172.		2
89	In Vitro and In Vivo Activity of Anogeissus leiocarpa Bark Extract and Isolated Metabolites against <i>Toxoplasma gondii</i> . <i>Planta Medica</i> , 2020, 86, 294-302.	1.3	2
90	Modern Separation Techniques for the Isolation of Natural Products. <i>Planta Medica</i> , 2015, 81, 1569-1569.	1.3	0

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91	Dereplication of Natural Extracts Diluted in Propylene Glycol, 1,3-Propanediol and Glycerin. Comparison of <i>Leontopodium alpinum</i> Cass. (Edelweiss) Extracts as a Case Study. <i>Cosmetics</i> , 2021, 8, 10.	3.3	0