

# 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	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
2	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
3	Phytostilbenes as agrochemicals: biosynthesis, bioactivity, metabolic engineering and biotechnology. <i>Natural Product Reports</i> , 2021, 38, 1282-1329.	10.3	56
4	Pilot continuous centrifugal liquid-liquid extraction of extra virgin olive oil biophenols and gram-scale recovery of pure oleocanthal, oleacein, MFOA, MFLA and hydroxytyrosol. <i>Separation and Purification Technology</i> , 2021, 255, 117692.	7.9	20
5	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
6	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
7	Implementation of an Enzyme Membrane Reactor to Intensify the $\beta$ -O-Glycosylation of Resveratrol Using Cyclodextrins. <i>Pharmaceuticals</i> , 2021, 14, 319.	3.8	5
8	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
9	Bacterial rhamnolipids and their 3-hydroxyalkanoate precursors activate <i>Arabidopsis</i> innate immunity through two independent mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	25
10	Resveratrol and cyclodextrins, an easy alliance: Applications in nanomedicine, green chemistry and biotechnology. <i>Biotechnology Advances</i> , 2021, 53, 107844.	11.7	20
11	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
12	Dereplication of Natural Extracts Diluted in Glycerin: Physical Suppression of Glycerin by Centrifugal Partition Chromatography Combined with Presaturation of Solvent Signals in $^{13}\text{C}$ -Nuclear Magnetic Resonance Spectroscopy. <i>Molecules</i> , 2020, 25, 5061.	3.8	4
13	Chemical Profile and Antimicrobial Activity of the Fungus-Growing Termite Strain <i>Macrotermes bellicosus</i> Used in Traditional Medicine in the Republic of Benin. <i>Molecules</i> , 2020, 25, 5015.	3.8	19
14	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
15	In Vitro and In Vivo Activity of <i>Anogeissus leiocarpa</i> Bark Extract and Isolated Metabolites against <i>Toxoplasma gondii</i> . <i>Planta Medica</i> , 2020, 86, 294-302.	1.3	2
16	Multiple solvent signal presaturation and decoupling artifact removal in $^{13}\text{C}$ nuclear magnetic resonance. <i>Magnetic Resonance</i> , 2020, 1, 155-164.	1.9	3
17	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
18	Optimize, Modulate, and Scale-up Resveratrol and Resveratrol Dimers Bioproduction in <i>Vitis labrusca</i> L. Cell Suspension from Flasks to 20 L Bioreactor. <i>Plants</i> , 2019, 8, 567.	3.5	22

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19	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
20	Accelerating Metabolite Identification in Natural Product Research: Toward an Ideal Combination of Liquid Chromatography-High-Resolution Tandem Mass Spectrometry and NMR Profiling, in Silico Databases, and Chemometrics. <i>Analytical Chemistry</i> , 2019, 91, 704-742.	6.5	165
21	Enzymatic Synthesis of Resveratrol $\beta$ -Glycosides from $\beta$ -Cyclodextrin-Resveratrol Complex in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5370-5380.	6.7	28
22	Advanced NMR-Based Structural Investigation of Glucosinolates and Desulfoglucosinolates. <i>Journal of Natural Products</i> , 2018, 81, 323-334.	3.0	18
23	Two new bis-iridoids isolated from <i>Scabiosa stellata</i> and their antibacterial, antioxidant, anti-tyrosinase and cytotoxic activities. <i>FÄ-toterapÄ-Äc</i> , 2018, 125, 41-48.	2.2	29
24	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
25	Discovery of New Inhibitors of <i>Toxoplasma gondii</i> via the Pathogen Box. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	59
26	Engineering stilbene metabolic pathways in microbial cells. <i>Biotechnology Advances</i> , 2018, 36, 2264-2283.	11.7	47
27	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
28	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
29	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
30	<i>Schinus terebinthifolius</i> 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
31	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
32	Computer-aided Dereplication and Structure Elucidation of Natural Products at the University of Reims. <i>Molecular Informatics</i> , 2017, 36, 1700027.	2.5	11
33	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
34	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
35	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
36	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

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37	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
38	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
39	Bioactivity-guided identification of antimicrobial metabolites in <i>Alnus glutinosa</i> bark and optimization of oregonin purification by Centrifugal Partition Chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1029-1030, 121-127.	2.3	23
40	<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
41	In Vitro Dermo-Cosmetic Evaluation of Bark Extracts from Common Temperate Trees. <i>Planta Medica</i> , 2016, 82, 1351-1358.	1.3	33
42	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
43	Modern Separation Techniques for the Isolation of Natural Products. <i>Planta Medica</i> , 2015, 81, 1569-1569.	1.3	0
44	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
45	Methodology for optimally sized centrifugal partition chromatography columns. <i>Journal of Chromatography A</i> , 2015, 1388, 174-183.	3.7	33
46	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. <i>Journal of Natural Products</i> , 2015, 78, 1609-1617.	3.0	19
47	Modeling pH-zone refining countercurrent chromatography: A dynamic approach. <i>Journal of Chromatography A</i> , 2015, 1391, 80-87.	3.7	15
48	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
49	Isolation of Flavonoids and Triterpenoids from the Fruits of <i>Alphitonia Neocaledonica</i> and Evaluation of their Antioxidant, Antityrosinase and Cytotoxic Activities. <i>Phytochemical Analysis</i> , 2015, 26, 137-144.	2.4	23
50	New biphasic solvent system based on cyclopentyl methyl ether for the purification of a nonpolar synthetic peptide by pH-zone refining centrifugal partition chromatography. <i>Journal of Separation Science</i> , 2014, 37, 1222-1228.	2.5	9
51	Purification of antibiotics from the biocontrol agent <i>Streptomyces anulatus</i> S37 by centrifugal partition chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 944, 30-34.	2.3	23
52	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
53	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
54	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

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55	Resveratrol production at large scale using plant cell suspensions. <i>Engineering in Life Sciences</i> , 2014, 14, 622-632.	3.6	61
56	Modulation of Phytoalexin Biosynthesis in Engineered Plants for Disease Resistance. <i>International Journal of Molecular Sciences</i> , 2013, 14, 14136-14170.	4.1	139
57	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
58	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
59	Polyphenol Purification by Solid Support-Free Liquid-Liquid Chromatography (CCC, CPC)., 2013, , 2145-2172.		2
60	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
61	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
62	Rhamnolipids Elicit Defense Responses and Induce Disease Resistance against Biotrophic, Hemibiotrophic, and Necrotrophic Pathogens That Require Different Signaling Pathways in Arabidopsis and Highlight a Central Role for Salicylic Acid. <i>Plant Physiology</i> , 2012, 160, 1630-1641.	4.8	115
63	New perspectives for microbial glycolipid fractionation and purification processes. <i>Comptes Rendus Chimie</i> , 2012, 15, 18-28.	0.5	19
64	Strong ion exchange in centrifugal partition extraction (SIX-CPE): Effect of partition cell design and dimensions on purification process efficiency. <i>Journal of Chromatography A</i> , 2012, 1247, 18-25.	3.7	24
65	Concentration and selective fractionation of an antihypertensive peptide from an alfalfa white proteins hydrolysate by mixed ion-exchange centrifugal partition chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 905, 23-30.	2.3	18
66	Ion-exchange centrifugal partition chromatography: A methodological approach for peptide separation. <i>Journal of Chromatography A</i> , 2012, 1236, 115-122.	3.7	15
67	The stimulating adventure of KRN 7000. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3080.	2.8	124
68	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
69	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
70	Study of a specific lignin model: $\beta$ -Oxidation and how it influences the hydrolysis efficiency of alcohol-aldehyde dehydrogenation copolymers. <i>Bioresource Technology</i> , 2011, 102, 5567-5573.	9.6	2
71	Intensified extraction of ionized natural products by ion pair centrifugal partition extraction. <i>Journal of Chromatography A</i> , 2011, 1218, 5254-5262.	3.7	23
72	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

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73	Biosynthesis, metabolism, molecular engineering, and biological functions of stilbene phytoalexins in plants. <i>BioFactors</i> , 2010, 36, 331-341.	5.4	214
74	Acidolysis of a lignin model: Investigation of heterogeneous catalysis using Montmorillonite clay. <i>Bioresource Technology</i> , 2010, 101, 736-744.	9.6	20
75	Bioproduction of resveratrol and stilbene derivatives by plant cells and microorganisms. <i>Trends in Biotechnology</i> , 2009, 27, 706-713.	9.3	189
76	Molecular engineering of resveratrol in plants. <i>Plant Biotechnology Journal</i> , 2009, 7, 2-12.	8.3	134
77	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
78	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
79	Simultaneous presence of unsaturation and long alkyl chain at P1 of Ilomastat confers selectivity for gelatinase A (MMP-2) over gelatinase B (MMP-9) inhibition as shown by molecular modelling studies. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4753-4766.	3.0	20
80	Preparative isolation of huperzines A and B from <i>Huperzia serrata</i> by displacement centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2007, 1140, 101-106.	3.7	23
81	Strong ion-exchange centrifugal partition chromatography as an efficient method for the large-scale purification of glucosinolates. <i>Journal of Chromatography A</i> , 2007, 1170, 44-51.	3.7	24
82	Novel seco-Dibenzopyrrocoline Alkaloid from <i>Cryptocarya oubatchensis</i> . <i>Organic Letters</i> , 2006, 8, 3825-3828.	4.6	40
83	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
84	Anion-Exchange Displacement Centrifugal Partition Chromatography. <i>Analytical Chemistry</i> , 2004, 76, 6179-6186.	6.5	21
85	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
86	Chapter 3 Solvent systems. <i>Comprehensive Analytical Chemistry</i> , 2002, , 49-83.	1.3	14
87	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
88	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
89	Dammarane saponins from <i>Zizyphus lotus</i> . <i>Phytochemistry</i> , 1997, 44, 1321-1327.	2.9	47
90	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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91	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