

# Gilles Subra

## List of Publications by Year in descending order

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113  
papers

2,450  
citations

279798

23  
h-index

254184

43  
g-index

124  
all docs

124  
docs citations

124  
times ranked

3479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and Protocols of Modern Solid Phase Peptide Synthesis. <i>Molecular Biotechnology</i> , 2006, 33, 239-254.	2.4	379
2	Chemical insights into bioinks for 3D printing. <i>Chemical Society Reviews</i> , 2019, 48, 4049-4086.	38.1	145
3	Proteomics-based Refinement of <i>Deinococcus deserti</i> Genome Annotation Reveals an Unwanted Use of Non-canonical Translation Initiation Codons. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 415-426.	3.8	90
4	N-terminus FITC labeling of peptides on solid support: the truth behind the spacer. <i>Tetrahedron Letters</i> , 2009, 50, 260-263.	1.4	88
5	Chemical cross-linkers for protein structure studies by mass spectrometry. <i>Proteomics</i> , 2013, 13, 438-456.	2.2	65
6	Novel 1 <i>H</i> -Pyrrolo[3,2- <i>c</i> ]quinoline Based 5-HT <sub>6</sub> Receptor Antagonists with Potential Application for the Treatment of Cognitive Disorders Associated with Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2016, 7, 972-983.	3.5	64
7	Peptide synthesis: ball-milling, in solution, or on solid support, what is the best strategy?. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2087-2093.	2.2	51
8	Synthesis of cyclic peptides via O <sup>N</sup> -acyl migration. <i>Tetrahedron Letters</i> , 2008, 49, 4674-4676.	1.4	50
9	Chemical cross-linking methods for cell encapsulation in hydrogels. <i>Materials Today Communications</i> , 2019, 20, 100536.	1.9	47
10	Inorganic polymerization: an attractive route to biocompatible hybrid hydrogels. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3434-3448.	5.8	41
11	Inverse Peptide Synthesis via Activated $\hat{\text{N}}$ -Aminoesters. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5389-5393.	13.8	40
12	Simple and Specific Grafting of Antibacterial Peptides on Silicone Catheters. <i>Advanced Healthcare Materials</i> , 2016, 5, 3067-3073.	7.6	39
13	Modular bioink for 3D printing of biocompatible hydrogels: sol-gel polymerization of hybrid peptides and polymers. <i>RSC Advances</i> , 2017, 7, 12231-12235.	3.6	39
14	Tandem mass spectrometry of amidated peptides. <i>Journal of Mass Spectrometry</i> , 2006, 41, 1470-1483.	1.6	38
15	Sol-gel synthesis of collagen-inspired peptide hydrogel. <i>Materials Today</i> , 2017, 20, 59-66.	14.2	37
16	Microwave-assisted Solid Phase Peptide Synthesis on High Loaded Resins. <i>International Journal of Peptide Research and Therapeutics</i> , 2008, 14, 143-147.	1.9	36
17	Synthesis of Peptide Alcohols on the Basis of an O <sup>N</sup> Acyl Transfer Reaction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 117-120.	13.8	35
18	O <sup>N</sup> -Acyl migration in N-terminal serine-containing peptides: mass spectrometric elucidation and subsequent development of site-directed acylation protocols. <i>Tetrahedron Letters</i> , 2004, 45, 1173-1178.	1.4	33

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19	A New Class of Arylpiperazine Derivatives:Â the Library Synthesis on SynPhase Lanterns and Biological Evaluation on Serotonin 5-HT1Aand 5-HT2AReceptors. ACS Combinatorial Science, 2004, 6, 761-767.	3.3	30
20	Unambiguous and Controlled One-Pot Synthesis of Multifunctional Silica Nanoparticles. Chemistry of Materials, 2016, 28, 885-889.	6.7	29
21	Self-Assembling Peptideâ€”Polymer Nano-Objects <i>via</i> Polymerization-Induced Self-Assembly. Macromolecules, 2020, 53, 7034-7043.	4.8	28
22	Site-specific grafting on titanium surfaces with hybrid temporin antibacterial peptides. Journal of Materials Chemistry B, 2018, 6, 1782-1790.	5.8	26
23	Easy Synthesis of Tunable Hybrid Bioactive Hydrogels. Chemistry of Materials, 2016, 28, 1261-1265.	6.7	25
24	A Rational Approach to the Design and Synthesis of a New Bradykinin B1 Receptor Antagonist. Journal of Medicinal Chemistry, 2000, 43, 2387-2394.	6.4	24
25	Novel class of arylpiperazines containing N-acylated amino acids: Their synthesis, 5-HT1A, 5-HT2A receptor affinity, and in vivo pharmacological evaluation. Bioorganic and Medicinal Chemistry, 2007, 15, 2907-2919.	3.0	24
26	Solid-supported synthesis, molecular modeling, and biological activity of long-chain arylpiperazine derivatives with cyclic amino acid amide fragments as 5-HT7 and 5-HT1A receptor ligands. European Journal of Medicinal Chemistry, 2014, 78, 10-22.	5.5	23
27	Application of time-of-flight secondary ion mass spectrometry to in situ monitoring of solid-phase peptide synthesis on the Multipin <sup>TM</sup> system. Journal of Mass Spectrometry, 1998, 33, 1094-1103.	1.6	22
28	Monitoring and quantification on solid support of a by-product formation during peptide synthesis by ToF-SIMS. Tetrahedron Letters, 1999, 40, 6217-6220.	1.4	22
29	Continuous flow ring-closing metathesis, an environmentally-friendly route to 2,5-dihydro-1H-pyrrole-3-carboxylates. Green Chemistry, 2017, 19, 1647-1652.	9.0	22
30	Bioactive peptides grafted silicone dressings: A simple and specific method. Materials Today Chemistry, 2017, 4, 73-83.	3.5	22
31	Solid-phase synthesis of 3,7-disubstituted perhydro-1,4-diazepine-2,5-diones from amino acids and Î²-amino acids. Tetrahedron Letters, 2001, 42, 5389-5392.	1.4	21
32	On-Line Synthesis of Pseudopeptide Library Incorporating a Benzodiazepinone Turn Mimic:â€” Biological Evaluation on MC1 Receptors. ACS Combinatorial Science, 2007, 9, 254-262.	3.3	21
33	Epimerization-Free C-Term Activation of Peptide Fragments by Ball Milling. Organic Letters, 2021, 23, 631-635.	4.6	21
34	Arylpiperazines with N-acylated amino acids as 5-HT1A receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3406-3410.	2.2	19
35	Heating and microwave assisted SPPS of C-terminal acid peptides on trityl resin: the truth behind the yield. Amino Acids, 2013, 45, 1395-1403.	2.7	19
36	Bioorganic hybrid OMS by straightforward grafting of trialkoxysilyl peptides. Journal of Materials Chemistry B, 2013, 1, 2921.	5.8	19

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37	From protected trialkoxysilyl-peptide building blocks to bioorganic-silica hybrid materials. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6510.	5.8	18
38	Parallel solid-phase synthesis and characterization of new sulfonamide and carboxamide proline derivatives as potential CNS agents. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 3029-3035.	3.0	17
39	MSX-3D: a tool to validate 3D protein models using mass spectrometry. <i>Bioinformatics</i> , 2008, 24, 2782-2783.	4.1	17
40	Microgels of silylated HPMC as a multimodal system for drug co-encapsulation. <i>International Journal of Pharmaceutics</i> , 2017, 532, 790-801.	5.2	17
41	Nano-assemblies with core-forming hydrophobic polypeptide <i>via</i> polymerization-induced self-assembly (PISA). <i>Polymer Chemistry</i> , 2021, 12, 113-121.	3.9	17
42	The role of aspartyl-rich pentapeptides in comparative complexation of actinide(IV) and iron(III). Part 1. <i>New Journal of Chemistry</i> , 2009, 33, 976.	2.8	16
43	Functionalised mesoporous silica: a good opportunity for controlled peptide oligomerisation. <i>Journal of Materials Chemistry</i> , 2011, 21, 6321.	6.7	16
44	A New Way to Silicone-Based Peptide Polymers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3778-3782.	13.8	16
45	Solid-Phase Synthesis of 4-Methylcarboxy-1,4-benzodiazepine-2,5-diones. <i>ACS Combinatorial Science</i> , 2008, 10, 869-874.	3.3	15
46	A new generation of cross-linkers for selective detection by MALDI MS. <i>Proteomics</i> , 2009, 9, 5384-5388.	2.2	15
47	Turning Peptide Sequences into Ribbon Foldamers by a Straightforward Multicyclization Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13966-13970.	13.8	15
48	Spiroimidazolidinone Library Derivatives on SynPhase Lanterns. <i>ACS Combinatorial Science</i> , 2003, 5, 356-361.	3.3	14
49	Sulfonamides with the N-alkyl-N <sup>2</sup> -dialkylguanidine moiety as 5-HT <sub>7</sub> receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4827-4831.	2.2	14
50	From Polyesters to Polyamides Via O <sup>2</sup> N Acyl Migration: An Original Multi-Transfer Reaction. <i>Macromolecular Rapid Communications</i> , 2011, 32, 876-880.	3.9	14
51	Structure-Based Design and Optimization of FPPQ, a Dual-Acting 5-HT <sub>3</sub> and 5-HT <sub>6</sub> Receptor Antagonist with Antipsychotic and Pro-cognitive Properties. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 13279-13298.	6.4	14
52	A New Highly Versatile Handle for Chemistry on a Solid Support: The Pipecolic Linker. <i>Chemistry - A European Journal</i> , 2010, 16, 7547-7553.	3.3	13
53	Synthesis of peptide-grafted comb polypeptides via polymerisation of NCA-peptides. <i>Chemical Communications</i> , 2013, 49, 409-411.	4.1	13
54	Biocompatible Glycine-Assisted Catalysis of the Sol-Gel Process: Development of Cell-Embedded Hydrogels. <i>ChemPlusChem</i> , 2019, 84, 1720-1729.	2.8	13

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55	Design of PEGylated Three Ligands Silica Nanoparticles for Multi-Receptor Targeting. <i>Nanomaterials</i> , 2021, 11, 177.	4.1	13
56	Bottom-up strategies for the synthesis of peptide-based polymers. <i>Progress in Polymer Science</i> , 2021, 115, 101377.	24.7	13
57	Inorganic Sol-gel Polymerization for Hydrogel Bioprinting. <i>ACS Omega</i> , 2020, 5, 2640-2647.	3.5	13
58	Engineered Adhesion Peptides for Improved Silicon Adsorption. <i>Langmuir</i> , 2015, 31, 11868-11874.	3.5	12
59	Ribbon-like Foldamers for Cellular Uptake and Drug Delivery. <i>ChemBioChem</i> , 2017, 18, 2110-2114.	2.6	12
60	Heteromultivalent targeting of integrin $\alpha_5\beta_3$ and neuropilin 1 promotes cell survival via the activation of the IGF-1/insulin receptors. <i>Biomaterials</i> , 2018, 155, 64-79.	11.4	12
61	Receptor-Ligand Interaction Measured by Inductively Coupled Plasma Mass Spectrometry and Selenium Labeling. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10173-10184.	6.4	12
62	Sol-gel process: the inorganic approach in protein imprinting. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2155-2178.	5.8	12
63	Glutamic acid as a new linker for attachment of alcohols to solid support. <i>Tetrahedron Letters</i> , 2002, 43, 9221-9223.	1.4	11
64	Discrimination and Selective Enhancement of Signals in the MALDI Mass Spectrum of a Protein by Combining a Matrix-Based Label for Lysine Residues with a Neutral Matrix. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5594-5597.	13.8	11
65	Parallel Synthesis of a Lipopeptide Library by Hydrazone-Based Chemical Ligation. <i>ACS Combinatorial Science</i> , 2007, 9, 973-981.	3.3	11
66	Combinatorial Chemistry on Solid Support in the Search for Central Nervous System Agents. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 723-739.	1.1	11
67	Oxyfold: A Simple and Efficient Solid-Supported Reagent for Disulfide Bond Formation. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2382-2389.	3.3	11
68	A Collagen-Mimetic Organic-Inorganic Hydrogel for Cartilage Engineering. <i>Gels</i> , 2021, 7, 73.	4.5	11
69	Investigation of Elemental Mass Spectrometry in Pharmacology for Peptide Quantitation at Femtomolar Levels. <i>PLoS ONE</i> , 2016, 11, e0157943.	2.5	10
70	Application of the ring-closing metathesis to the formation of 2-aryl-1H-pyrrole-3-carboxylates as building blocks for biologically active compounds. <i>Tetrahedron</i> , 2016, 72, 7462-7469.	1.9	10
71	Selenazolidine: a selenium containing proline surrogate in peptide science. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8101-8108.	2.8	10
72	A Straightforward Approach for Cellular Uptake Quantification. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8240-8243.	13.8	9

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73	A New Highly Versatile Handle for Chemistry on a Solid Support: The Pipecolic Linker. <i>Chemistry - A European Journal</i> , 2012, 18, 11536-11540.	3.3	9
74	Microwave-Mediated Reduction of Disulfide Bridges with Supported (Tris(2-carboxyethyl)phosphine) as Resin-Bound Reducing Agent. <i>ACS Combinatorial Science</i> , 2013, 15, 169-173.	3.8	9
75	Combining sol-gel and microfluidics processes for the synthesis of protein-containing hybrid microgels. <i>Chemical Communications</i> , 2019, 55, 13112-13115.	4.1	9
76	2-Phenyl-1 <i>H</i> -pyrrole-3-carboxamide as a New Scaffold for Developing 5-HT <sub>6</sub> Receptor Inverse Agonists with Cognition-Enhancing Activity. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1228-1240.	3.5	9
77	Time-of-flight secondary ion mass spectrometry of Fmoc-amino acids linked to solid supports through ionic interactions. <i>Rapid Communications in Mass Spectrometry</i> , 1998, 12, 1715-1720.	1.5	8
78	Switchable polymer-grafted mesoporous silica's: from polyesters to polyamides biosilica hybrid materials. <i>Tetrahedron</i> , 2013, 69, 7670-7674.	1.9	8
79	N- and O-acetylation of threonine residues in the context of proteomics. <i>Journal of Proteomics</i> , 2014, 108, 369-372.	2.4	8
80	Turning peptides in comb silicone polymers. <i>Journal of Peptide Science</i> , 2015, 21, 243-247.	1.4	8
81	Targeting out of range biomolecules: Chemical labeling strategies for qualitative and quantitative MALDI MS-based detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116399.	11.4	8
82	The influence of an ethylene spacer on the 5-HT <sub>1A</sub> and 5-HT <sub>2A</sub> receptor affinity of arylpiperazine derivatives of amides with N-acylated amino acids and 3-differently substituted pyrrolidine-2,5-diones. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 800-808.	5.5	7
83	Supported oligomethionine sulfoxide and Ellman's reagent for cysteine bridges formation. <i>Amino Acids</i> , 2013, 44, 733-742.	2.7	7
84	Solid-Supported Synthesis and 5-HT <sub>7</sub> /5-HT <sub>1A</sub> Receptor Affinity of Arylpiperazinylbutyl Derivatives of 4,5-dihydro-1,2,4-triazine-6-yl-1 <i>H</i> -one. <i>Chemical Biology and Drug Design</i> , 2015, 86, 697-703.		7
85	Quantitative MALDI-MS Binding Assays: An Alternative to Radiolabeling. <i>ChemMedChem</i> , 2016, 11, 2582-2587.	3.2	7
86	Selective homodimerization of unprotected peptides using hybrid hydroxydimethylsilane derivatives. <i>RSC Advances</i> , 2016, 6, 32905-32914.	3.6	7
87	The presence of PEG on nanoparticles presenting the c[RGDFK]- and/or ATWLPPR peptides deeply affects the RTKs-AKT-GSK3 <sup>β</sup> -eNOS signaling pathway and endothelial cells survival. <i>International Journal of Pharmaceutics</i> , 2019, 568, 118507.	5.2	7
88	Silicone grafted bioactive peptides and their applications. <i>Current Opinion in Chemical Biology</i> , 2019, 52, 125-135.	6.1	7
89	Star-poly(lactide)-peptide hybrid networks as bioactive materials. <i>European Polymer Journal</i> , 2020, 139, 109990.	5.4	7
90	A study on application of impregnated synthetic peptide TLC stationary phases for the screening of 5-HT <sub>1A</sub> ligands. Part 2. <i>Biomedical Chromatography</i> , 2004, 18, 542-549.	1.7	6

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91	Recycling the Versatile Pipecolic Linker. ACS Combinatorial Science, 2010, 12, 747-753.	3.3	6
92	Solid-Phase Synthesis of Aryl-Alkylamine Derivatives Using Protected Aminoalcohol Building Blocks on SynPhase™ Lanterns. QSAR and Combinatorial Science, 2007, 26, 215-219.	1.4	5
93	Self-mineralization and assembly of a bis-silylated Phe-Phe pseudodipeptide to a structured bioorganic-inorganic material. Materials Horizons, 2019, 6, 2040-2046.	12.2	5
94	The pipecolic linker—an acid-labile handle for derivatization of secondary amines on a solid-support. Part 3. Tetrahedron Letters, 2013, 54, 998-1002.	1.4	4
95	Turning peptides into bioactive nylons. European Polymer Journal, 2020, 135, 109886.	5.4	4
96	Gram-scale Synthesis of a Hexapeptide by Fragment Coupling in a Ball Mill. European Journal of Organic Chemistry, 0, , .	2.4	4
97	Neuropathic pain-alleviating activity of novel 5-HT <sub>6</sub> receptor inverse agonists derived from 2-aryl-1H-pyrrole-3-carboxamide. Bioorganic Chemistry, 2021, 115, 105218.	4.1	4
98	Preliminary selection of 5-HT <sub>1A</sub> receptor ligands by TLC on plates impregnated with synthetic peptides. Journal of Planar Chromatography - Modern TLC, 2002, 15, 38-41.	1.2	4
99	Development of Amino Acids Functionalized SBA-15 for the Improvement of Protein Adsorption. Molecules, 2021, 26, 6085.	3.8	4
100	Solid Phase Synthesis of a Hydroxypyrrolidine Derivative and its Use in Solid Phase Peptide Synthesis as Constrained Statine Mimic. International Journal of Peptide Research and Therapeutics, 2007, 13, 337-343.	1.9	3
101	Solid-Phase Cross-Linking (SPCL): A new tool for protein structure studies. Proteomics, 2011, 11, 1277-1286.	2.2	3
102	Hydrocarbon-Stapled Peptide Based-Nanoparticles for siRNA Delivery. Nanomaterials, 2020, 10, 2334.	4.1	3
103	Parallel and Mixture Combined Approach: Rapid Cheap Synthesis and Characterization of a 4096-Tripeptides Library. QSAR and Combinatorial Science, 2003, 22, 646-651.	1.4	2
104	A comparative study of actinide complexation in three ligand systems with increasing complexity. Journal of Physics: Conference Series, 2009, 190, 012185.	0.4	2
105	Solid-Phase Synthesis of Arylpiperazine Derivatives and Implementation of the Distributed Drug Discovery (D3) Project in the Search for CNS Agents. Molecules, 2011, 16, 4104-4121.	3.8	2
106	A switchable stapled peptide. Journal of Peptide Science, 2016, 22, 143-148.	1.4	2
107	Direct Synthesis of Peptide-Containing Silicones: A New Way to Bioactive Materials. Chemistry - A European Journal, 2020, 26, 12839-12845.	3.3	2
108	Encapsulation of BSA in hybrid PEG hydrogels: stability and controlled release. RSC Advances, 2021, 11, 30887-30897.	3.6	2

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109	Hybrid Silylated Peptides for the Design of Bio-functionalized Materials. Springer Protocols, 2020, , 69-92.	0.3	2
110	Controlled Silylation of Polysaccharides: Attractive Building Blocks for Biocompatible Foams and Cell-Laden Hydrogels. ACS Applied Polymer Materials, 2022, 4, 4087-4097.	4.4	2
111	Synthesis and TGF- $\beta$ Receptor Binding Inhibition of Multibranched Compounds. QSAR and Combinatorial Science, 2007, 26, 496-510.	1.4	1
112	On the Manner of Cyclization of N-Acylated Aspartic and Glutamic Acid Derivatives. International Journal of Peptide Research and Therapeutics, 2011, 17, 93-100.	1.9	0
113	MALDI-MS/MS of N-Terminal TMPP-Acyl Peptides: A Worthwhile Tool to Decipher Protein N-Termini. European Journal of Organic Chemistry, 0, , .	2.4	0