

Quentin K Kaas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2388942/publications.pdf>

Version: 2024-02-01

101
papers

6,604
citations

61984

43
h-index

66911

78
g-index

107
all docs

107
docs citations

107
times ranked

6042
citing authors

#	ARTICLE	IF	CITATIONS
1	IMGT unique numbering for immunoglobulin and T cell receptor constant domains and Ig superfamily C-like domains. <i>Developmental and Comparative Immunology</i> , 2005, 29, 185-203.	2.3	454
2	Accurate de novo design of hyperstable constrained peptides. <i>Nature</i> , 2016, 538, 329-335.	27.8	327
3	ConoServer: updated content, knowledge, and discovery tools in the conopeptide database. <i>Nucleic Acids Research</i> , 2012, 40, D325-D330.	14.5	298
4	Discovery, Synthesis, and Structure-Activity Relationships of Conotoxins. <i>Chemical Reviews</i> , 2014, 114, 5815-5847.	47.7	258
5	IMGT, the international ImMunoGeneTics information system(R). <i>Nucleic Acids Research</i> , 2004, 33, D593-D597.	14.5	251
6	CyBase: a database of cyclic protein sequences and structures, with applications in protein discovery and engineering. <i>Nucleic Acids Research</i> , 2007, 36, D206-D210.	14.5	242
7	IMGT/3Dstructure-DB and IMGT/DomainGapAlign: a database and a tool for immunoglobulins or antibodies, T cell receptors, MHC, IgSF and MhcSF. <i>Nucleic Acids Research</i> , 2010, 38, D301-D307.	14.5	232
8	Conopeptide characterization and classifications: An analysis using ConoServer. <i>Toxicon</i> , 2010, 55, 1491-1509.	1.6	198
9	ConoServer, a database for conopeptide sequences and structures. <i>Bioinformatics</i> , 2008, 24, 445-446.	4.1	193
10	Efficient backbone cyclization of linear peptides by a recombinant asparaginyl endopeptidase. <i>Nature Communications</i> , 2015, 6, 10199.	12.8	186
11	Deep Venomics Reveals the Mechanism for Expanded Peptide Diversity in Cone Snail Venom. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 312-329.	3.8	180
12	Conotoxins: Chemistry and Biology. <i>Chemical Reviews</i> , 2019, 119, 11510-11549.	47.7	174
13	ArachnoServer 2.0, an updated online resource for spider toxin sequences and structures. <i>Nucleic Acids Research</i> , 2011, 39, D653-D657.	14.5	159
14	IMGT/3Dstructure-DB and IMGT/StructuralQuery, a database and a tool for immunoglobulin, T cell receptor and MHC structural data. <i>Nucleic Acids Research</i> , 2004, 32, 208D-210.	14.5	145
15	KNOTTIN: the knottin or inhibitor cystine knot scaffold in 2007. <i>Nucleic Acids Research</i> , 2007, 36, D314-D319.	14.5	140
16	High-affinity Cyclic Peptide Matriptase Inhibitors. <i>Journal of Biological Chemistry</i> , 2013, 288, 13885-13896.	3.4	122
17	IMGT-ONTOLOGY for immunogenetics and immunoinformatics. <i>In Silico Biology</i> , 2004, 4, 17-29.	0.9	119
18	IMGT-Kaleidoscope, the formal IMGT-ONTOLOGY paradigm. <i>Biochimie</i> , 2008, 90, 570-583.	2.6	107

#	ARTICLE	IF	CITATIONS
19	IMGT unique numbering for MHC groove G-DOMAIN and MHC superfamily (MhcSF) G-LIKE-DOMAIN. <i>Developmental and Comparative Immunology</i> , 2005, 29, 917-938.	2.3	104
20	Conformational Flexibility Is a Determinant of Permeability for Cyclosporin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2261-2276.	2.6	104
21	The KNOTTIN website and database: a new information system dedicated to the knottin scaffold. <i>Nucleic Acids Research</i> , 2004, 32, 156D-159.	14.5	102
22	IMGT-Choreography for immunogenetics and immunoinformatics. <i>In Silico Biology</i> , 2005, 5, 45-60.	0.9	102
23	Molecular basis for the production of cyclic peptides by plant asparaginyl endopeptidases. <i>Nature Communications</i> , 2018, 9, 2411.	12.8	99
24	Cloning, synthesis, and characterization of Î±O-conotoxin GeXIVA, a potent Î±9Î±10 nicotinic acetylcholine receptor antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4026-35.	7.1	91
25	ArachnoServer 3.0: an online resource for automated discovery, analysis and annotation of spider toxins. <i>Bioinformatics</i> , 2018, 34, 1074-1076.	4.1	86
26	Determination of the Î±-Conotoxin Vc1.1 Binding Site on the Î±9Î±10 Nicotinic Acetylcholine Receptor. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 3557-3567.	6.4	84
27	Blockade of Neuronal Î±7-nAChR by Î±-Conotoxin Iml Explained by Computational Scanning and Energy Calculations. <i>PLoS Computational Biology</i> , 2011, 7, e1002011.	3.2	77
28	Despite a Conserved Cystine Knot Motif, Different Cyclotides Have Different Membrane Binding Modes. <i>Biophysical Journal</i> , 2009, 97, 1471-1481.	0.5	74
29	IG, TR and IgSF, MHC and MhcSF: what do we learn from the IMGT Colliers de Perles?. <i>Briefings in Functional Genomics & Proteomics</i> , 2008, 6, 253-264.	3.8	71
30	Transcriptomic Messiness in the Venom Duct of <i>Conus miles</i> Contributes to Conotoxin Diversity. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 3824-3833.	3.8	70
31	Structure-function relationships of the variable domains of monoclonal antibodies approved for cancer treatment. <i>Critical Reviews in Oncology/Hematology</i> , 2007, 64, 210-225.	4.4	69
32	Cyclization of conotoxins to improve their biopharmaceutical properties. <i>Toxicon</i> , 2012, 59, 446-455.	1.6	68
33	Analysis and classification of circular proteins in CyBase. <i>Biopolymers</i> , 2010, 94, 584-591.	2.4	67
34	A novel Î±4/7Î±conotoxin LvIA from <i>Conus lividus</i> that selectively blocks Î±3Î±2 vs. Î±6/Î±3Î±2Î±3 nicotinic acetylcholine receptors. <i>FASEB Journal</i> , 2014, 28, 1842-1853.	0.5	64
35	Molecular basis for the resistance of an insect chymotrypsin to a potato type II proteinase inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15016-15021.	7.1	63
36	A bifunctional asparaginyl endopeptidase efficiently catalyzes both cleavage and cyclization of cyclic trypsin inhibitors. <i>Nature Communications</i> , 2020, 11, 1575.	12.8	61

#	ARTICLE	IF	CITATIONS
37	Structural venomics reveals evolution of a complex venom by duplication and diversification of an ancient peptide-encoding gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11399-11408.	7.1	59
38	ArachnoServer: a database of protein toxins from spiders. <i>BMC Genomics</i> , 2009, 10, 375.	2.8	58
39	Design of substrate-based BCR-ABL kinase inhibitors using the cyclotide scaffold. <i>Scientific Reports</i> , 2015, 5, 12974.	3.3	58
40	Elucidation of relaxin-3 binding interactions in the extracellular loops of RXFP3. <i>Frontiers in Endocrinology</i> , 2013, 4, 13.	3.5	48
41	Engineering of Conotoxins for the Treatment of Pain. <i>Current Pharmaceutical Design</i> , 2011, 17, 4242-4253.	1.9	47
42	A suite of kinetically superior AEP ligases can cyclise an intrinsically disordered protein. <i>Scientific Reports</i> , 2019, 9, 10820.	3.3	47
43	IMGT Colliers de Perles: Standardized Sequence-Structure Representations of the IgSF and MhcSF Superfamily Domains. <i>Current Bioinformatics</i> , 2007, 2, 21-30.	1.5	46
44	A new method for cyclotide sequencing. <i>Biopolymers</i> , 2010, 94, 592-601.	2.4	45
45	Less is More: Design of a Highly Stable Disulfide-Deleted Mutant of Analgesic Cyclic δ -Conotoxin Vc1.1. <i>Scientific Reports</i> , 2015, 5, 13264.	3.3	42
46	Bioinformatics-Aided Venomics. <i>Toxins</i> , 2015, 7, 2159-2187.	3.4	38
47	T cell receptor/peptide/MHC molecular characterization and standardized pMHC contact sites in IMGT/3Dstructure-DB. <i>In Silico Biology</i> , 2005, 5, 505-28.	0.9	38
48	Cyclic analogues of δ -conotoxin Vc1.1 inhibit colonic nociceptors and provide analgesia in a mouse model of chronic abdominal pain. <i>British Journal of Pharmacology</i> , 2018, 175, 2384-2398.	5.4	36
49	Lysine-rich Cyclotides: A New Subclass of Circular Knotted Proteins from Violaceae. <i>ACS Chemical Biology</i> , 2015, 10, 2491-2500.	3.4	34
50	Delineation of the Unbinding Pathway of δ -Conotoxin Iml from the $\alpha 7$ Nicotinic Acetylcholine Receptor. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6097-6105.	2.6	31
51	Identification of candidates for cyclotide biosynthesis and cyclisation by expressed sequence tag analysis of <i>Oldenlandia affinis</i> . <i>BMC Genomics</i> , 2010, 11, 111.	2.8	30
52	δ -Conotoxin [S9A]TxID Potently Discriminates between $\alpha 3 \beta 2$ and $\alpha 6 \beta 1 \beta 2$ Nicotinic Acetylcholine Receptors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 5826-5833.	6.4	30
53	Prediction of disulfide dihedral angles using chemical shifts. <i>Chemical Science</i> , 2018, 9, 6548-6556.	7.4	30
54	δ -O-Conotoxin GeXIVA disulfide bond isomers exhibit differential sensitivity for various nicotinic acetylcholine receptors but retain potency and selectivity for the human $\alpha 9 \beta 10$ subtype. <i>Neuropharmacology</i> , 2017, 127, 243-252.	4.1	29

#	ARTICLE	IF	CITATIONS
55	Development of Novel Melanocortin Receptor Agonists Based on the Cyclic Peptide Framework of Sunflower Trypsin Inhibitor-1. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3674-3684.	6.4	29
56	A systematic approach to document cyclotide distribution in plant species from genomic, transcriptomic, and peptidomic analysis. <i>Biopolymers</i> , 2013, 100, 433-437.	2.4	26
57	The Evolution of <i>Momordica</i> Cyclic Peptides. <i>Molecular Biology and Evolution</i> , 2015, 32, 392-405.	8.9	26
58	Insecticidal spider toxins are high affinity positive allosteric modulators of the nicotinic acetylcholine receptor. <i>FEBS Letters</i> , 2019, 593, 1336-1350.	2.8	23
59	Efficient enzymatic cyclization of an inhibitory cystine knot-containing peptide. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2202-2212.	3.3	22
60	Computational Studies of Snake Venom Toxins. <i>Toxins</i> , 2018, 10, 8.	3.4	22
61	Discovery and mechanistic studies of cytotoxic cyclotides from the medicinal herb <i>Hybanthus enneaspermus</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 10911-10925.	3.4	22
62	The Cold Awakening of <i>Doritaenopsis</i> "Tinny Tender" Orchid Flowers: The Role of Leaves in Cold-induced Bud Dormancy Release. <i>Journal of Plant Growth Regulation</i> , 2012, 31, 139-155.	5.1	21
63	Enhanced Activity against Multidrug-Resistant Bacteria through Coapplication of an Analogue of Tachyplesin I and an Inhibitor of the QseC/B Signaling Pathway. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3475-3484.	6.4	20
64	Prediction and characterization of cyclic proteins from sequences in three domains of life. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 181-190.	2.3	19
65	Single Amino Acid Substitution in $\hat{\pm}$ -Conotoxin Tx1D Reveals a Specific $\hat{\pm}$ -Conotoxin Nicotinic Acetylcholine Receptor Antagonist. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 9256-9265.	6.4	19
66	Key Residues in the Nicotinic Acetylcholine Receptor $\hat{\pm}$ 2 Subunit Contribute to $\hat{\pm}$ -Conotoxin Lv1A Binding. <i>Journal of Biological Chemistry</i> , 2015, 290, 9855-9862.	3.4	18
67	SCORE: predicting the core of protein models. <i>Bioinformatics</i> , 2001, 17, 541-550.	4.1	17
68	Isolation and Characterization of A Cytosolic Pyruvate Kinase cDNA From Loquat (<i>Eriobotrya japonica</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	17
69	Bioactive Compounds Isolated from Neglected Predatory Marine Gastropods. <i>Marine Drugs</i> , 2018, 16, 118.	4.6	17
70	Neuropeptide signalling systems " An underexplored target for venom drug discovery. <i>Biochemical Pharmacology</i> , 2020, 181, 114129.	4.4	17
71	IMGT Standardization for Molecular Characterization of the T-cell Receptor/Peptide/MHC Complexes. , 2008, , 19-49.		17
72	Mapping the Molecular Surface of the Analgesic NaV1.7-Selective Peptide Pn3a Reveals Residues Essential for Membrane and Channel Interactions. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 535-546.	4.9	16

#	ARTICLE	IF	CITATIONS
73	Backbone cyclization of analgesic conotoxin GeXIVA facilitates direct folding of the ribbon isomer. <i>Journal of Biological Chemistry</i> , 2017, 292, 17101-17112.	3.4	15
74	Precursor De13.1 from <i>Conus delessertii</i> defines the novel G gene superfamily. <i>Peptides</i> , 2013, 41, 17-20.	2.4	14
75	Modelling the interactions between animal venom peptides and membrane proteins. <i>Neuropharmacology</i> , 2017, 127, 20-31.	4.1	14
76	Stoichiometry dependent inhibition of rat $\alpha 3\beta 4$ nicotinic acetylcholine receptor by the ribbon isomer of α -conotoxin AulB. <i>Biochemical Pharmacology</i> , 2018, 155, 288-297.	4.4	14
77	Cyclisation of Disulfide-Rich Conotoxins in Drug Design Applications. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3462-3472.	2.4	13
78	Distinct but overlapping binding sites of agonist and antagonist at the relaxin family peptide 3 (RXFP3) receptor. <i>Journal of Biological Chemistry</i> , 2018, 293, 15777-15789.	3.4	13
79	Structure and Activity Studies of Disulfide-Deficient Analogues of α -Conotoxin GeXIVA. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1564-1575.	6.4	13
80	Role of Cys11-Cys111 Disulfide Bond on the Structure and Activity of α -Conotoxins at Human Neuronal Nicotinic Acetylcholine Receptors. <i>ACS Omega</i> , 2017, 2, 4621-4631.	3.5	12
81	Exploring the Sequence Diversity of Cyclotides from Vietnamese <i>Viola</i> Species. <i>Journal of Natural Products</i> , 2020, 83, 1817-1828.	3.0	12
82	Designed β -Hairpins Inhibit LDH5 Oligomerization and Enzymatic Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3767-3779.	6.4	12
83	Development of efficient docking strategies and structure-activity relationship study of the c-Met type II inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 75, 241-249.	2.4	11
84	Molecular dynamics simulations of dihydroerythroidine bound to the human $\alpha 4\beta 2$ nicotinic acetylcholine receptor. <i>British Journal of Pharmacology</i> , 2019, 176, 2750-2763.	5.4	11
85	Hormone-like conopeptides – new tools for pharmaceutical design. <i>RSC Medicinal Chemistry</i> , 2020, 11, 1235-1251.	3.9	11
86	Computational and Functional Mapping of Human and Rat $\alpha 6\beta 2$ Nicotinic Acetylcholine Receptors Reveals Species-Specific Ligand-Binding Motifs. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 1685-1700.	6.4	11
87	Creating a specialist protein resource network: a meeting report for the protein bioinformatics and community resources retreat: Figure 1.. Database: the <i>Journal of Biological Databases and Curation</i> , 2015, 2015, bav063.	3.0	8
88	Periplasmic Expression of $\alpha 7$ α -Conotoxin TxIA Analogs in <i>E. coli</i> Favors Ribbon Isomer Formation – Suggestion of a Binding Mode at the $\alpha 7$ nAChR. <i>Frontiers in Pharmacology</i> , 2019, 10, 577.	3.5	8
89	High-Resolution X-ray Structure of the Unexpectedly Stable Dimer of the [Lys(-2)-Arg(-1)-des(17-21)]Endothelin-1 Peptide. <i>Biochemistry</i> , 2004, 43, 15154-15168.	2.5	7
90	Engineered Conotoxin Differentially Blocks and Discriminates Rat and Human $\alpha 7$ Nicotinic Acetylcholine Receptors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5620-5631.	6.4	7

#	ARTICLE	IF	CITATIONS
91	Antimicrobial peptides in plants.. , 2010, , 40-71.		7
92	Melanocortin 1 Receptor Agonists Based on a Bivalent, Bicyclic Peptide Framework. Journal of Medicinal Chemistry, 2021, 64, 9906-9915.	6.4	6
93	NMR of plant proteins. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 71, 1-34.	7.5	5
94	The [Lys-2-Arg-1-des(17 [~] 21)]-Endothelin-1 Peptide Retains the Specific Arg-1 [~] Asp8 Salt Bridge but Reveals Discrepancies between NMR Data and Molecular Dynamics Simulations. Biochemistry, 2002, 41, 11099-11108.	2.5	4
95	Mutagenesis of bracelet cyclotide hyen D reveals functionally and structurally critical residues for membrane binding and cytotoxicity. Journal of Biological Chemistry, 2022, 298, 101822.	3.4	4
96	Characterisation of the subunit genes of pyrophosphate-dependent phosphofructokinase from loquat (Eriobotrya japonica Lindl.). Tree Genetics and Genomes, 2014, 10, 1465-1476.	1.6	3
97	Mutagenesis of cyclotide Cter 27 exemplifies a robust folding strategy for bracelet cyclotides. Peptide Science, 2022, 114, .	1.8	3
98	Interactions of Globular and Ribbon [³⁴ E]GID with α 2 Neuronal Nicotinic Acetylcholine Receptor. Marine Drugs, 2021, 19, 482.	4.6	2
99	In Silico Design of MDM2 α -Targeting Peptides from a Naturally Occurring Constrained Peptide. ChemMedChem, 2019, 14, 1710-1716.	3.2	1
100	Development of novel frog α -skin peptide scaffolds with selectivity towards melanocortin receptor subtypes. Peptide Science, 2021, 113, e24209.	1.8	1
101	Front Cover: Cyclisation of Disulfide-Rich Conotoxins in Drug Design Applications (Eur. J. Org. Chem.) Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	0