

# Irina Vetter

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159  
papers

6,377  
citations

39  
h-index

75  
g-index

177  
ext. papers

7,969  
ext. citations

6.4  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
159	Polygodial, a drimane sesquiterpenoid dialdehyde purified from , inhibits voltage-gated sodium channels.. <i>Natural Product Research</i> , <b>2022</b> , 1-6	2.3	1
158	Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system.. <i>Nature Communications</i> , <b>2022</b> , 13, 260	17.4	1
157	Structural and functional insights into inhibition of human voltage-gated sodium channels by Eonotoxin KIIIA disulfide isomers.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101728	5.4	2
156	A peptide toxin in ant venom mimics vertebrate EGF-like hormones to cause long-lasting hypersensitivity in mammals.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3
155	Low potency inhibition of Na <sub>v</sub> 1.7 by externally applied QX-314 via a depolarizing shift in the voltage-dependence of activation.. <i>European Journal of Pharmacology</i> , <b>2022</b> , 175013	5.3	
154	The Tarantula Venom Peptide Eo1a Binds to the Domain II S3-S4 Extracellular Loop of Voltage-Gated Sodium Channel Na <sub>v</sub> 1.8 to Enhance Activation.. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 789570	5.6	0
153	Evaluation of Efficient Non-reducing Enzymatic and Chemical Ligation Strategies for Complex Disulfide-Rich Peptides. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 2407-2419	6.3	1
152	Novel Neurotoxic Activity in Calliophis intestinalis Venom. <i>Neurotoxicity Research</i> , <b>2021</b> , 40, 173	4.3	0
151	Vincristine-induced peripheral neuropathy is driven by canonical NLRP3 activation and IL-1 $\beta$ release. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	6
150	Production, composition, and mode of action of the painful defensive venom produced by a limacodid caterpillar,. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
149	Venom chemistry underlying the painful stings of velvet ants (Hymenoptera: Mutillidae). <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 5163-5177	10.3	3
148	Improving the Gastrointestinal Stability of Linaclotide. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 8384-8390	9.0	5
147	Small cyclic sodium channel inhibitors. <i>Biochemical Pharmacology</i> , <b>2021</b> , 183, 114291	6	6
146	Convergent evolution of pain-inducing defensive venom components in spitting cobras. <i>Science</i> , <b>2021</b> , 371, 386-390	33.3	30
145	The zebrafish mutant uncovers an evolutionarily conserved role for Tmem161b in the control of cardiac rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
144	The Allosteric Activation of $\alpha$ 7 nAChR by Eonotoxin MrIC Is Modified by Mutations at the Vestibular Site. <i>Toxins</i> , <b>2021</b> , 13,	4.9	1
143	Engineering of a Spider Peptide Conserved Structure-Function Traits Optimizes Sodium Channel Inhibition and Anti-Nociception. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 742457	5.6	2

142	A pain-causing and paralytic ant venom glycopeptide. <i>IScience</i> , <b>2021</b> , 24, 103175	6.1	1
141	Multipurpose peptides: The venoms of Amazonian stinging ants contain anthelmintic ponericins with diverse predatory and defensive activities. <i>Biochemical Pharmacology</i> , <b>2021</b> , 192, 114693	6	2
140	An Integrated Proteomic and Transcriptomic Analysis Reveals the Venom Complexity of the Bullet Ant. <i>Toxins</i> , <b>2020</b> , 12,	4.9	5
139	Mutational analysis of ProTx-I and the novel venom peptide Pe1b provide insight into residues responsible for selective inhibition of the analgesic drug target Na1.7. <i>Biochemical Pharmacology</i> , <b>2020</b> , 181, 114080	6	4
138	Animal toxins - Nature's evolutionary-refined toolkit for basic research and drug discovery. <i>Biochemical Pharmacology</i> , <b>2020</b> , 181, 114096	6	43
137	Characterization of Synthetic Tf2 as a Na1.3 Selective Pharmacological Probe. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	3
136	NaV1.1 and NaV1.6 selective compounds reduce the behavior phenotype and epileptiform activity in a novel zebrafish model for Dravet Syndrome. <i>PLoS ONE</i> , <b>2020</b> , 15, e0219106	3.7	13
135	Manipulation of a spider peptide toxin alters its affinity for lipid bilayers and potency and selectivity for voltage-gated sodium channel subtype 1.7. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 5067-5080 <sup>10</sup>	5.4	10
134	Addition of K22 Converts Spider Venom Peptide Pme2a from an Activator to an Inhibitor of Na1.7. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	2
133	Pharmacological activity and NMR solution structure of the leech peptide HSTX-I. <i>Biochemical Pharmacology</i> , <b>2020</b> , 181, 114082	6	
132	It Takes Two: Dimerization Is Essential for the Broad-Spectrum Predatory and Defensive Activities of the Venom Peptide Mp1a from the Jack Jumper Ant. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	5
131	Mapping the Molecular Surface of the Analgesic Na1.7-Selective Peptide Pn3a Reveals Residues Essential for Membrane and Channel Interactions. <i>ACS Pharmacology and Translational Science</i> , <b>2020</b> , 3, 535-546	5.9	9
130	A new selective pharmacological enhancer of the Orai1 Ca channel reveals roles for Orai1 in smooth and skeletal muscle functions. <i>ACS Pharmacology and Translational Science</i> , <b>2020</b> , 3, 135-147	5.9	16
129	Characterisation of a Novel A-Superfamily Conotoxin. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	5
128	High-Throughput Fluorescence Assays for Ion Channels and GPCRs. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1131, 27-72	3.6	7
127	Enzymatic Ligation of a Pore Blocker Toxin and a Gating Modifier Toxin: Creating Double-Knotted Peptides with Improved Sodium Channel Na1.7 Inhibition. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 64-73	6.3	9
126	Discovery, Pharmacological Characterisation and NMR Structure of the Novel $\mu$ -Conotoxin SxIIIc, a Potent and Irreversible Na Channel Inhibitor. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	7
125	Recombinant production, bioconjugation and membrane binding studies of Pn3a, a selective Na1.7 inhibitor. <i>Biochemical Pharmacology</i> , <b>2020</b> , 181, 114148	6	3

124	Australian funnel-web spiders evolved human-lethal Hexatoxins for defense against vertebrate predators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24920-24928	11.5	13
123	The NLRP3 Inflammasome: Role and Therapeutic Potential in Pain Treatment. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 1016	4.6	14
122	Neurotoxic peptides from the venom of the giant Australian stinging tree. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	6
121	Inflammatory and Neuropathic Gene Expression Signatures of Chemotherapy-Induced Neuropathy Induced by Vincristine, Cisplatin, and Oxaliplatin in C57BL/6J Mice. <i>Journal of Pain</i> , <b>2020</b> , 21, 182-194	5.2	19
120	Development of an N-Acyl Amino Acid That Selectively Inhibits the Glycine Transporter 2 To Produce Analgesia in a Rat Model of Chronic Pain. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 2466-2484	8.3	15
119	Na <sub>v</sub> 1.6 regulates excitability of mechanosensitive sensory neurons. <i>Journal of Physiology</i> , <b>2019</b> , 597, 3751-3768	13.6	16
118	Novel conorfamides from <i>Conus austini</i> venom modulate both nicotinic acetylcholine receptors and acid-sensing ion channels. <i>Biochemical Pharmacology</i> , <b>2019</b> , 164, 342-348	6	9
117	Development of a high-throughput fluorescent no-wash sodium influx assay. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213351	3.51	10
116	Transcriptomic characterisation of the optimised rat model of Walker 256 breast cancer cell-induced bone pain. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2019</b> , 46, 1201-1215	3	2
115	Minocycline Prevents the Development of Mechanical Allodynia in Mouse Models of Vincristine-Induced Peripheral Neuropathy. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 653	5.1	15
114	Missiles of Mass Disruption: Composition and Glandular Origin of Venom Used as a Projectile Defensive Weapon by the Assassin Bug. <i>Toxins</i> , <b>2019</b> , 11,	4.9	9
113	Antiallodynic effects of the selective Na <sub>v</sub> 1.7 inhibitor Pn3a in a mouse model of acute postsurgical pain: evidence for analgesic synergy with opioids and baclofen. <i>Pain</i> , <b>2019</b> , 160, 1766-1780	8	24
112	A Centipede Toxin Family Defines an Ancient Class of CS <sub>2</sub> Defensins. <i>Structure</i> , <b>2019</b> , 27, 315-326.e7	5.2	9
111	Assessment of the TRPM8 inhibitor AMTB in breast cancer cells and its identification as an inhibitor of voltage gated sodium channels. <i>Life Sciences</i> , <b>2018</b> , 198, 128-135	6.8	18
110	The E15R Point Mutation in Scorpion Toxin Cn2 Uncouples Its Depressant and Excitatory Activities on Human Na <sub>v</sub> 1.6. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 1730-1736	8.3	6
109	Role of complement anaphylatoxin receptors in a mouse model of acute burn-induced pain. <i>Molecular Immunology</i> , <b>2018</b> , 94, 68-74	4.3	4
108	Burn Pain: A Systematic and Critical Review of Epidemiology, Pathophysiology, and Treatment. <i>Pain Medicine</i> , <b>2018</b> , 19, 708-734	2.8	30
107	The Somatostatin Receptor-4 Agonist J-2156 Alleviates Mechanical Hypersensitivity in a Rat Model of Breast Cancer Induced Bone Pain. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 495	5.6	15

106	Molecular Pharmacology of Pain-inducing Venom Peptides. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , <b>2018</b> , WCP2018, SY66-4	0	
105	Chemotactic responses of growing neurites to precisely controlled gradients of nerve growth factor. <i>Scientific Data</i> , <b>2018</b> , 5, 180183	8.2	6
104	Transcriptomics in pain research: insights from new and old technologies. <i>Molecular Omics</i> , <b>2018</b> , 14, 389-404	4.4	13
103	Buzz Kill: Function and Proteomic Composition of Venom from the Giant Assassin Fly (Diptera: Asilidae). <i>Toxins</i> , <b>2018</b> , 10,	4.9	9
102	A comprehensive portrait of the venom of the giant red bull ant, , reveals a hyperdiverse hymenopteran toxin gene family. <i>Science Advances</i> , <b>2018</b> , 4, eaau4640	14.3	42
101	Novel analgesic Eonotoxins from the vermivorous cone snail <i>Conus moncuri</i> provide new insights into the evolution of conopeptides. <i>Scientific Reports</i> , <b>2018</b> , 8, 13397	4.9	12
100	An SAR study of hydroxy-trifluoromethylpyrazolines as inhibitors of Orai1-mediated store operated Ca entry in MDA-MB-231 breast cancer cells using a convenient Fluorescence Imaging Plate Reader assay. <i>Bioorganic and Medicinal Chemistry</i> , <b>2018</b> , 26, 3406-3413	3.4	6
99	Pharmacological characterisation of the highly Na1.7 selective spider venom peptide Pn3a. <i>Scientific Reports</i> , <b>2017</b> , 7, 40883	4.9	90
98	The long non-coding RNA NEAT1 is responsive to neuronal activity and is associated with hyperexcitability states. <i>Scientific Reports</i> , <b>2017</b> , 7, 40127	4.9	59
97	Role of the NLRP3 inflammasome in a model of acute burn-induced pain. <i>Burns</i> , <b>2017</b> , 43, 304-309	2.3	18
96	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. <i>Scientific Reports</i> , <b>2017</b> , 7, 42810	4.9	47
95	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. <i>Australian Journal of Chemistry</i> , <b>2017</b> , 70, 162	1.2	6
94	Sodium Channels and Venom Peptide Pharmacology. <i>Advances in Pharmacology</i> , <b>2017</b> , 79, 67-116	5.7	38
93	The pharmacology of voltage-gated sodium channel activators. <i>Neuropharmacology</i> , <b>2017</b> , 127, 87-108	5.5	37
92	Myrtoxin-Mp1a is a Helical Heterodimer from the Venom of the Jack Jumper Ant that has Antimicrobial, Membrane-Disrupting, and Nociceptive Activities. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8495-8499	16.4	21
91	Modulatory features of the novel spider toxin $\beta$ TRTX-Df1a isolated from the venom of the spider <i>Davus fasciatus</i> . <i>British Journal of Pharmacology</i> , <b>2017</b> , 174, 2528-2544	8.6	37
90	Pharmacological screening technologies for venom peptide discovery. <i>Neuropharmacology</i> , <b>2017</b> , 127, 4-19	5.5	24
89	Lethal effects of an insecticidal spider venom peptide involve positive allosteric modulation of insect nicotinic acetylcholine receptors. <i>Neuropharmacology</i> , <b>2017</b> , 127, 224-242	5.5	9

88	The Evolution of Fangs, Venom, and Mimicry Systems in Blenny Fishes. <i>Current Biology</i> , <b>2017</b> , 27, 1184-1191	16.1	30
87	Na1.7 as a pain target - From gene to pharmacology. <i>Pharmacology &amp; Therapeutics</i> , <b>2017</b> , 172, 73-100	13.9	83
86	Conotoxin EMiXXVIIA from the Superfamily G2 Employs a Novel Cysteine Framework that Mimics Granulin and Displays Anti-Apoptotic Activity. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15169-15172	3.6	2
85	Discovery and mode of action of a novel analgesic toxin from the African spider <i>Ceratogyrus darlingi</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0182848	3.7	14
84	Ciguatoxin Detection Methods and High-Throughput Assays <b>2017</b> , 469-488		
83	Subtle modifications to oxytocin produce ligands that retain potency and improved selectivity across species. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	24
82	Evaluation of known and novel inhibitors of Orai1-mediated store operated Ca entry in MDA-MB-231 breast cancer cells using a Fluorescence Imaging Plate Reader assay. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 440-449	3.4	17
81	Optimization and Profiling of a Refined Rat Model of Walker 256 Breast Cancer Cell-Induced Bone Pain Using Behavioral, Radiological, Histological, Immunohistochemical and Pharmacological Methods. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 442	5.6	7
80	Pathophysiology of Chemotherapy-Induced Peripheral Neuropathy. <i>Frontiers in Molecular Neuroscience</i> , <b>2017</b> , 10, 174	6.1	259
79	Methods Used to Evaluate Pain Behaviors in Rodents. <i>Frontiers in Molecular Neuroscience</i> , <b>2017</b> , 10, 284	6.1	319
78	The structure, dynamics and selectivity profile of a NaV1.7 potency-optimised huwentoxin-IV variant. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173551	3.7	28
77	Pain-Causing Venom Peptides: Insights into Sensory Neuron Pharmacology. <i>Toxins</i> , <b>2017</b> , 10,	4.9	19
76	Conotoxin EMiXXVIIA from the Superfamily G2 Employs a Novel Cysteine Framework that Mimics Granulin and Displays Anti-Apoptotic Activity. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14973-14976	16.4	14
75	New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 11435-11439	6.6	34
74	Interaction of Tarantula Venom Peptide ProTx-II with Lipid Membranes Is a Prerequisite for Its Inhibition of Human Voltage-gated Sodium Channel NaV1.7. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 17049-65	5.4	52
73	Development of a D-Conotoxin Analogue with Improved Lipid Membrane Interactions and Potency for the Analgesic Sodium Channel NaV1.8. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 11829-42	5.4	35
72	Ciguatoxin and Ciguatera <b>2016</b> , 71-92		4
71	The thermal probe test: A novel behavioral assay to quantify thermal paw withdrawal thresholds in mice. <i>Temperature</i> , <b>2016</b> , 3, 199-207	5.2	32

70	Release of neuropeptides from a neuro-cutaneous co-culture model: A novel in vitro model for studying sensory effects of ciguatoxins. <i>Toxicon</i> , <b>2016</b> , 116, 4-10	2.8	12
69	Rapid Extraction and Identification of Maitotoxin and Ciguatoxin-Like Toxins from Caribbean and Pacific Gambierdiscus Using a New Functional Bioassay. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160006	3.7	52
68	The Snake with the Scorpion's Sting: Novel Three-Finger Toxin Sodium Channel Activators from the Venom of the Long-Glanded Blue Coral Snake ( <i>Calliophis bivirgatus</i> ). <i>Toxins</i> , <b>2016</b> , 8,	4.9	35
67	Characterization of Three Venom Peptides from the Spitting Spider <i>Scytodes thoracica</i> . <i>PLoS ONE</i> , <b>2016</b> , 11, e0156291	3.7	4
66	The Walker 256 Breast Cancer Cell- Induced Bone Pain Model in Rats. <i>Frontiers in Pharmacology</i> , <b>2016</b> , 7, 286	5.6	32
65	Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of NaV1.7-Mediated Pain. <i>Toxins</i> , <b>2016</b> , 8,	4.9	75
64	Neuronal cell lines as model dorsal root ganglion neurons: A transcriptomic comparison. <i>Molecular Pain</i> , <b>2016</b> , 12,	3.4	49
63	Transcriptomic and behavioural characterisation of a mouse model of burn pain identify the cholecystokinin 2 receptor as an analgesic target. <i>Molecular Pain</i> , <b>2016</b> , 12,	3.4	38
62	Crotalphine desensitizes TRPA1 ion channels to alleviate inflammatory hyperalgesia. <i>Pain</i> , <b>2016</b> , 157, 2504-2516	8	21
61	Seven novel modulators of the analgesic target NaV 1.7 uncovered using a high-throughput venom-based discovery approach. <i>British Journal of Pharmacology</i> , <b>2015</b> , 172, 2445-58	8.6	67
60	Conotoxin dendrimers have enhanced potency and selectivity for homomeric nicotinic acetylcholine receptors. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3209-12	16.4	28
59	Conotoxin SuVIA suggests an evolutionary link between ancestral predator defence and the origin of fish-hunting behaviour in carnivorous cone snails. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282,	4.4	25
58	CHAPTER 1: Seeing the Woods for the Trees: Understanding Venom Evolution as a Guide for Biodiscovery. <i>RSC Drug Discovery Series</i> , <b>2015</b> , 1-36	0.6	10
57	Conotoxin MrIC is a biased agonist at $\alpha$ 7 nicotinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , <b>2015</b> , 94, 155-63	6	12
56	Activation of $\mu$ Opioid Receptors in Cutaneous Nerve Endings by Conorphin-1, a Novel Subtype-Selective Conopeptide, Does Not Mediate Peripheral Analgesia. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 1751-8	5.7	16
55	Feeling hot, feeling cold: TRP channels-a great story unfolds. <i>Temperature</i> , <b>2015</b> , 2, 150-1	5.2	4
54	Comparative Venomics Reveals the Complex Prey Capture Strategy of the Piscivorous Cone Snail <i>Conus catus</i> . <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 4372-81	5.6	36
53	Design, Synthesis and Biological Evaluation of Two Opioid Agonist and Cav 2.2 Blocker Multitarget Ligands. <i>Chemical Biology and Drug Design</i> , <b>2015</b> , 86, 156-62	2.9	23

52	Transcriptome and proteome of <i>Conus planorbis</i> identify the nicotinic receptors as primary target for the defensive venom. <i>Proteomics</i> , <b>2015</b> , 15, 4030-40	4.8	20
51	Vps26B-retromer negatively regulates plasma membrane resensitization of PAR-2. <i>Cell Biology International</i> , <b>2015</b> , 39, 1299-306	4.5	6
50	Inhibition of N-type calcium channels by fluorophenoxyanilide derivatives. <i>Marine Drugs</i> , <b>2015</b> , 13, 2030-65		9
49	(-)-Pentylsedinine, a New Alkaloid from the Leaves of <i>Lobelia Tupa</i> with Agonist Activity at Nicotinic Acetylcholine Receptor. <i>Natural Product Communications</i> , <b>2015</b> , 10, 1934578X1501000	0.9	2
48	Identification and Characterization of ProTx-III [PTRTX-Tp1a], a New Voltage-Gated Sodium Channel Inhibitor from Venom of the Tarantula <i>Thrixopelma pruriens</i> . <i>Molecular Pharmacology</i> , <b>2015</b> , 88, 291-303	4.3	60
47	Therapeutic opportunities for targeting cold pain pathways. <i>Biochemical Pharmacology</i> , <b>2015</b> , 93, 125-406		29
46	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. <i>Nature Medicine</i> , <b>2015</b> , 21, 248-55	50.5	1354
45	CHAPTER 4: Venoms-Based Drug Discovery: Bioassays, Electrophysiology, High-Throughput Screens and Target Identification. <i>RSC Drug Discovery Series</i> , <b>2015</b> , 97-128	0.6	2
44	Ciguatoxin and Ciguatera <b>2015</b> , 1-19		
43	Analgesic effects of clinically used compounds in novel mouse models of polyneuropathy induced by oxaliplatin and cisplatin. <i>Neuro-Oncology</i> , <b>2014</b> , 16, 1324-32	1	34
42	2-nitroveratryl as a photocleavable thiol-protecting group for directed disulfide bond formation in the chemical synthesis of insulin. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 9549-52	4.8	32
41	Isolation and structural and pharmacological characterization of $\beta$ -elapitoxin-Dpp2d, an amidated three finger toxin from black mamba venom. <i>Biochemistry</i> , <b>2014</b> , 53, 3758-66	3.2	17
40	No gain, no pain: Nav1.7 as an analgesic target. <i>ACS Chemical Neuroscience</i> , <b>2014</b> , 5, 749-51	5.7	59
39	Evolution of separate predation- and defence-evoked venoms in carnivorous cone snails. <i>Nature Communications</i> , <b>2014</b> , 5, 3521	17.4	203
38	CHAPTER 12: Does Nature do Ion Channel Drug Discovery Better than Us?. <i>RSC Drug Discovery Series</i> , <b>2014</b> , 297-319	0.6	1
37	A ray of venom: Combined proteomic and transcriptomic investigation of fish venom composition using barb tissue from the blue-spotted stingray ( <i>Neotrygon kuhlii</i> ). <i>Journal of Proteomics</i> , <b>2014</b> , 109, 188-98	3.9	22
36	MrlC, a novel $\beta$ -conotoxin agonist in the presence of PNU at endogenous $\alpha$ 7 nicotinic acetylcholine receptors. <i>Biochemistry</i> , <b>2014</b> , 53, 1-3	3.2	25
35	Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. <i>Nature Communications</i> , <b>2014</b> , 5, 3165	17.4	95



34	Ciguatera fish poisoning: a first epidemic in Germany highlights an increasing risk for European countries. <i>Toxicon</i> , <b>2014</b> , 91, 76-83	2.8	52
33	Ciguatera Toxins: Pharmacology, Toxicology, and Detection <b>2014</b> , 925-950		16
32	Analgesic treatment of ciguatoxin-induced cold allodynia. <i>Pain</i> , <b>2013</b> , 154, 1999-2006	8	45
31	An animal model of oxaliplatin-induced cold allodynia reveals a crucial role for Nav1.6 in peripheral pain pathways. <i>Pain</i> , <b>2013</b> , 154, 1749-1757	8	111
30	Isolation and characterization of $\beta$ -conotoxin LsIA with potent activity at nicotinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , <b>2013</b> , 86, 791-9	6	42
29	Chemical engineering and structural and pharmacological characterization of the $\beta$ -scorpion toxin OD1. <i>ACS Chemical Biology</i> , <b>2013</b> , 8, 1215-22	4.9	41
28	Differential evolution and neofunctionalization of snake venom metalloprotease domains. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 651-63	7.6	65
27	Venom peptides as a rich source of cav2.2 channel blockers. <i>Toxins</i> , <b>2013</b> , 5, 286-314	4.9	26
26	Amplified cold transduction in native nociceptors by M-channel inhibition. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 16627-41	6.6	33
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