John A Karas

List of Publications by Year
in descending order

45 papers	1,322 citations	331670 21 h-index	361022 35 g-index
46 all docs	46 docs citations	46 times ranked	1888 citing authors

#	Article	IF	Citations
1	A central role for venom in predation by Varanus komodoensis (Komodo Dragon) and the extinct giant Varanus (Megalania) priscus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8969-8974.	7.1	120
2	Novel Venom Proteins Produced by Differential Domain-Expression Strategies in Beaded Lizards and Gila Monsters (genus Heloderma). Molecular Biology and Evolution, 2010, 27, 395-407.	8.9	85
3	Versatile New Bis(thiosemicarbazone) Bifunctional Chelators: Synthesis, Conjugation to Bombesin(7â¯14)-NH2, and Copper-64 Radiolabeling. Inorganic Chemistry, 2010, 49, 1884-1893.	4.0	76
4	Functional and Structural Diversification of the Anguimorpha Lizard Venom System. Molecular and Cellular Proteomics, 2010, 9, 2369-2390.	3.8	70
5	The Antimicrobial Activity of Cannabinoids. Antibiotics, 2020, 9, 406.	3.7	64
6	A new bifunctional chelator for copper radiopharmaceuticals: a cage amine ligand with a carboxylate functional group for conjugation to peptides. Chemical Communications, 2009, , 3237.	4.1	55
7	Rapid Optimization of a Peptide Inhibitor of Malaria Parasite Invasion by Comprehensive N-Methyl Scanning. Journal of Biological Chemistry, 2009, 284, 9361-9371.	3.4	54
8	Gallium-68 Complex of a Macrobicyclic Cage Amine Chelator Tethered to Two Integrin-Targeting Peptides for Diagnostic Tumor Imaging. Bioconjugate Chemistry, 2011, 22, 2093-2103.	3.6	49
9	Macrobicyclic Cage Amine Ligands for Copper Radiopharmaceuticals: A Single Bivalent Cage Amine Containing Two Lys3-bombesin Targeting Peptides. Inorganic Chemistry, 2011, 50, 6701-6710.	4.0	49
10	2â€Nitroveratryl as a Photocleavable Thiolâ€Protecting Group for Directed Disulfide Bond Formation in the Chemical Synthesis of Insulin. Chemistry - A European Journal, 2014, 20, 9549-9552.	3.3	48
11	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie - International Edition, 2016, 55, 14743-14747.	13.8	45
12	Synthetic dityrosine-linked Î²-amyloid dimers form stable, soluble, neurotoxic oligomers. Chemical Science, 2013, 4, 4449.	7.4	44
13	Modulation of Conotoxin Structure and Function Is Achieved through a Multienzyme Complex in the Venom Glands of Cone Snails. Journal of Biological Chemistry, 2012, 287, 34288-34303.	3.4	41
14	Total Chemical Synthesis of a Nonfibrillating Human Glycoinsulin. Journal of the American Chemical Society, 2020, 142, 1164-1169.	13.7	41
15	Solid-phase synthesis of homodimeric peptides: preparation of covalently-linked dimers of amyloid Î² peptide. Chemical Communications, 2009, , 6228.	4.1	39
16	The Chemical Synthesis of Insulin: An Enduring Challenge. Chemical Reviews, 2021, 121, 4531-4560.	47.7	36
17	The Killing Mechanism of Teixobactin against Methicillin-Resistant Staphylococcus aureus: an Untargeted Metabolomics Study. MSystems, 2020, 5, .	3.8	33
18	Embryonic Toxin Expression in the Cone Snail Conus victoriae. Journal of Biological Chemistry, 2011, 286, 22546-22557.	3.4	31

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19	Structureâ€“Activity Relationships of Daptomycin Lipopeptides. Journal of Medicinal Chemistry, 2020, 63, 13266-13290.	6.4	30
20	Total Synthesis of the Antifungal Depsipeptide Petriellin A. Journal of Organic Chemistry, 2011, 76, 6686-6693.	3.2	27
21	Synthesis and structureâ^'activity relationships of teixobactin. Annals of the New York Academy of Sciences, 2020, 1459, 86-105.	3.8	26
22	One-step radiosynthesis of 4-nitrophenyl 2-[18F]fluoropropionate ([18F]NFP); improved preparation of radiolabeled peptides for PET imaging. Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 726-730.	1.0	21
23	A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. Angewandte Chemie - International Edition, 2016, 55, 14552-14556.	13.8	21
24	Thiol-Cyanobenzothiazole Ligation for the Efficient Preparation of Peptideâ€“PNA Conjugates. Bioconjugate Chemistry, 2019, 30, 793-799.	3.6	20
25	Rhenium and Technetium-oxo Complexes with Thioamide Derivatives of Pyridylhydrazine Bifunctional Chelators Conjugated to the Tumour Targeting Peptides Octreotate and Cyclic-RGDfK. Inorganic Chemistry, 2017, 56, 9725-9741.	4.0	19
26	Sputum Active Polymyxin Lipopeptides: Activity against Cystic FibrosisPseudomonas aeruginosaIsolates and Their Interactions with Sputum Biomolecules. ACS Infectious Diseases, 2018, 4, 646-655.	3.8	19
27	Total Chemical Synthesis of an Intraâ€Aâ€Chain Cystathionine Human Insulin Analogue with Enhanced Thermal Stability. Angewandte Chemie, 2016, 128, 14963-14967.	2.0	18
28	A Cyclic Peptide Inhibitor of ApoC-II Peptide Fibril Formation: Mechanistic Insight from NMR and Molecular Dynamics Analysis. Journal of Molecular Biology, 2012, 416, 642-655.	4.2	16
29	Effects of mutation on the amyloidogenic propensity of apolipoprotein C-II60â€“70 peptide. Physical Chemistry Chemical Physics, 2010, 12, 14762.	2.8	15
30	The efficient synthesis and purification of amyloid-Î²(1â€“42) using an oligoethylene glycol-containing photocleavable lysine tag. Chemical Communications, 2017, 53, 6903-6905.	4.1	14
31	Aromatic residues in the C-terminal helix of human apoC-I mediate phospholipid interactions and particle morphology. Journal of Lipid Research, 2009, 50, 1384-1394.	4.2	13
32	Total Chemical Synthesis of a Heterodimeric Interchain Bis-Lactam-Linked Peptide: Application to an Analogue of Human Insulin-Like Peptide 3. International Journal of Peptides, 2013, 2013, 1-8.	0.7	13
33	Microwave Synthesis of Prion Protein Fragments up to 111 Amino Acids in Length Generates Biologically Active Peptides. International Journal of Peptide Research and Therapeutics, 2012, 18, 21-29.	1.9	11
34	Endosomal escape cell-penetrating peptides significantly enhance pharmacological effectiveness and CNS activity of systemically administered antisense oligonucleotides. International Journal of Pharmaceutics, 2021, 599, 120398.	5.2	10
35	Modular Synthesis of Trifunctional Peptide-oligonucleotide Conjugates via Native Chemical Ligation. Frontiers in Chemistry, 2021, 9, 627329.	3.6	9
36	Rapid Photolysisâ€Mediated Folding of Disulfideâ€Rich Peptides. Chemistry - A European Journal, 2019, 25, 8599-8603.	3.3	8

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37	1,3-Dichloroacetone: A Robust Reagent for Preparing Bicyclic Peptides. ACS Omega, 2020, 5, 1840-1850.	3.5	7
38	The impact of backbone N â€methylation on the structureâ€activity relationship of Leu 10 â€teixobactin. Journal of Peptide Science, 2019, 25, e3206.	1.4	6
39	Chemical Synthesis of a Fluorescent IGF-II Analogue. International Journal of Peptide Research and Therapeutics, 2013, 19, 61-69.	1.9	5
40	A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides. Angewandte Chemie, 2016, 128, 14772-14776.	2.0	5
41	Comprehensive N-Methyl Scanning of a Potent Peptide Inhibitor of Malaria Invasion into Erythrocytes Leads to Pharmacokinetic Optimization of the Molecule. International Journal of Peptide Research and Therapeutics, 2008, 14, 381-386.	1.9	4
42	The Assembly of Fluorescently Labeled Peptideâ€“Oligonucleotide Conjugates via Orthogonal Ligation Strategies. Methods in Molecular Biology, 2018, 1828, 355-363.	0.9	3
43	Chemical Synthesis and Characterization of an Equinatoxin II(1â€“85) Analogue. Molecules, 2017, 22, 559.	3.8	2
44	Synthesis of Peptide Sequences Derived from Fibril-Forming Proteins. Methods in Molecular Biology, 2011, 752, 29-43.	0.9	0
45	Innentitelbild: A Oneâ€Pot Chemically Cleavable Bisâ€Linker Tether Strategy for the Synthesis of Heterodimeric Peptides (Angew. Chem. 47/2016). Angewandte Chemie, 2016, 128, 14688-14688.	2.0	0