

# Mahmood Sasa

## List of Publications by Year in descending order

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61  
papers

2,596  
citations

218677

26  
h-index

197818

49  
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63  
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63  
docs citations

63  
times ranked

2484  
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#	ARTICLE	IF	CITATIONS
1	Snake Venomics of the Lancehead Pitviper <i>Bothrops asper</i> : Geographic, Individual, and Ontogenetic Variations. <i>Journal of Proteome Research</i> , 2008, 7, 3556-3571.	3.7	302
2	Amphibian and reptile declines over 35 years at La Selva, Costa Rica. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8352-8356.	7.1	266
3	Integrated proteomics-profiling indicates that miRNAs are modulators of the ontogenetic venom composition shift in the Central American rattlesnake, <i>Crotalus simus simus</i> . <i>BMC Genomics</i> , 2013, 14, 234.	2.8	164
4	Comparative phylogeography of pitvipers suggests a consensus of ancient Middle American highland biogeography. <i>Journal of Biogeography</i> , 2009, 36, 88-103.	3.0	157
5	Venomous snakes of Costa Rica: Biological and medical implications of their venom proteomic profiles analyzed through the strategy of snake venomics. <i>Journal of Proteomics</i> , 2014, 105, 323-339.	2.4	97
6	Profiling the venom gland transcriptomes of Costa Rican snakes by 454 pyrosequencing. <i>BMC Genomics</i> , 2011, 12, 259.	2.8	96
7	Venoms of <i>Micrurus</i> coral snakes: Evolutionary trends in compositional patterns emerging from proteomic analyses. <i>Toxicon</i> , 2016, 122, 7-25.	1.6	89
8	The Phospholipase A2 Homologues of Snake Venoms: Biological Activities and Their Possible Adaptive Roles. <i>Protein and Peptide Letters</i> , 2009, 16, 860-876.	0.9	85
9	Snake venomics across genus <i>Lachesis</i> . Ontogenetic changes in the venom composition of <i>Lachesis stenophrys</i> and comparative proteomics of the venoms of adult <i>Lachesis melanocephala</i> and <i>Lachesis acrochorda</i> . <i>Journal of Proteomics</i> , 2012, 77, 280-297.	2.4	76
10	Snakebites are associated with poverty, weather fluctuations, and El Niño. <i>Science Advances</i> , 2015, 1, e1500249.	10.3	74
11	Evidence of maternal provisioning of alkaloid-based chemical defenses in the strawberry poison frog <i>Oophaga pumilio</i> . <i>Ecology</i> , 2014, 95, 587-593.	3.2	72
12	Natural history of the terciopelo <i>Bothrops asper</i> (Serpentes: Viperidae) in Costa Rica. <i>Toxicon</i> , 2009, 54, 904-922.	1.6	70
13	Modeling nucleotide evolution at the mesoscale: The phylogeny of the Neotropical pitvipers of the <i>Porthidium</i> group (Viperidae: Crotalinae). <i>Molecular Phylogenetics and Evolution</i> , 2005, 37, 881-898.	2.7	60
14	Snake venomics of <i>Micrurus alleni</i> and <i>Micrurus mosquitensis</i> from the Caribbean region of Costa Rica reveals two divergent compositional patterns in New World elapids. <i>Toxicon</i> , 2015, 107, 217-233.	1.6	59
15	Food resources influence spatial ecology, habitat selection, and foraging behavior in an ambush-hunting snake (Viperidae: <i>Bothrops asper</i> ): an experimental study. <i>Zoology</i> , 2012, 115, 179-187.	1.2	57
16	Using Geographical Information Systems to Identify Populations in Need of Improved Accessibility to Antivenom Treatment for Snakebite Envenoming in Costa Rica. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2009.	3.0	57
17	Stick or grip? Co-evolution of adhesive toepads and claws in <i>Anolis</i> lizards. <i>Zoology</i> , 2014, 117, 363-369.	1.2	55
18	Snake venomics of the pit vipers <i>Porthidium nasutum</i> , <i>Porthidium ophryomegas</i> , and <i>Cerrophidion godmani</i> from Costa Rica: Toxicological and taxonomical insights. <i>Journal of Proteomics</i> , 2012, 75, 1675-1689.	2.4	48

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19	Proteomic analysis of venom variability and ontogeny across the arboreal palm-pitvipers (genus <i>Tj ETQq1</i> )	1.0	44
20	Studies on the venom proteome of <i>Bothrops asper</i> : Perspectives and applications. <i>Toxicon</i> , 2009, 54, 938-948.	1.6	43
21	Snakebite envenomation in Costa Rica: a revision of incidence in the decade 1990â€“2000. <i>Toxicon</i> , 2003, 41, 19-22.	1.6	41
22	Two color morphs of the pelagic yellow-bellied sea snake, <i>Pelamis platura</i> , from different locations of Costa Rica: Snake venomomics, toxicity, and neutralization by antivenom. <i>Journal of Proteomics</i> , 2014, 103, 137-152.	2.4	39
23	Phylogeography of the Central American lancehead <i>Bothrops asper</i> (SERPENTES: VIPERIDAE). <i>PLoS ONE</i> , 2017, 12, e0187969.	2.5	36
24	Venom of the Coral Snake <i>Micrurus clarki</i> : Proteomic Profile, Toxicity, Immunological Cross-Neutralization, and Characterization of a Three-Finger Toxin. <i>Toxins</i> , 2016, 8, 138.	3.4	34
25	New insights into the phylogeographic distribution of the 3FTx/PLA2 venom dichotomy across genus <i>Micrurus</i> in South America. <i>Journal of Proteomics</i> , 2019, 200, 90-101.	2.4	34
26	Proteomic and functional profiling of the venom of <i>Bothrops ayerbei</i> from Cauca, Colombia, reveals striking interspecific variation with <i>Bothrops asper</i> venom. <i>Journal of Proteomics</i> , 2014, 96, 159-172.	2.4	32
27	Estimating snakebite incidence from mathematical models: A test in Costa Rica. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007914.	3.0	30
28	Activity Patterns of a Neotropical Ambush Predator: Spatial Ecology of the Fer-de-lance ( <i>Bothrops</i> )	1.6	28
29	Hydrology Affects Environmental and Spatial Structuring of Microalgal Metacommunities in Tropical Pacific Coast Wetlands. <i>PLoS ONE</i> , 2016, 11, e0149505.	2.5	28
30	Mutual enlightenment: A toolbox of concepts and methods for integrating evolutionary and clinical toxinology via snake venomomics and the contextual stance. <i>Toxicon: X</i> , 2021, 9-10, 100070.	2.9	21
31	Promoting co-existence between humans and venomous snakes through increasing the herpetological knowledge base. <i>Toxicon: X</i> , 2021, 12, 100081.	2.9	21
32	Comparative characterization of Viperidae snake venoms from Peru reveals two compositional patterns of phospholipase A2 expression. <i>Toxicon: X</i> , 2020, 7, 100044.	2.9	20
33	Trait differentiation and modular toxin expression in palm-pitvipers. <i>BMC Genomics</i> , 2020, 21, 147.	2.8	18
34	Venom characterization of the bark scorpion <i>Centruroides edwardsii</i> (Gervais 1843): Composition, biochemical activities and in vivo toxicity for potential prey. <i>Toxicon</i> , 2019, 171, 7-19.	1.6	16
35	Environment and Space Rule, but Time Also Matters for the Organization of Tropical Pond Metacommunities. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	16
36	First look into the venom of Roatan Island's critically endangered coral snake <i>Micrurus ruatanus</i> : Proteomic characterization, toxicity, immunorecognition and neutralization by an antivenom. <i>Journal of Proteomics</i> , 2019, 198, 177-185.	2.4	15

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37	Venom gland transcriptomics and microRNA profiling of juvenile and adult yellow-bellied sea snake, <i>Hydrophis platurus</i> , from Playa del Coco (Guanacaste, Costa Rica). <i>Toxicon</i> , 2018, 153, 96-105.	1.6	14
38	New insights into snakebite epidemiology in Costa Rica: A retrospective evaluation of medical records. <i>Toxicon: X</i> , 2020, 7, 100055.	2.9	14
39	BITES AND ENVENOMATIONS BY COLUBRID SNAKES IN MEXICO AND CENTRAL AMERICA. <i>Toxin Reviews</i> , 2002, 21, 105-115.	1.5	13
40	A cryptic palm-pitviper species (Squamata: Viperidae: <i>Bothriechis</i> ) from the Costa Rican highlands, with notes on the variation within <i>B. nigroviridis</i> . <i>Zootaxa</i> , 2016, 4138, 271-90.	0.5	13
41	Venom Composition and Diet of the Cantil <i>Agkistrodon bilineatus howardgloydi</i> (Serpentes: Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	12
42	Multiple paths to aquatic specialisation in four species of Central American Anolis lizards. <i>Journal of Natural History</i> , 2015, 49, 1717-1730.	0.5	12
43	Venomomics of the Duvernoy's gland secretion of the false coral snake <i>Rhinobothryum bovallii</i> (Andersson, 1916) and assessment of venom lethality towards synapsid and diapsid animal models. <i>Journal of Proteomics</i> , 2020, 225, 103882.	2.4	12
44	Venomomics of the Central American Lyre Snake <i>Trimorphodon quadruplex</i> (Colubridae: Smith, 1941) from Costa Rica. <i>Journal of Proteomics</i> , 2020, 220, 103778.	2.4	11
45	Detection of a synthetic sex steroid in the American crocodile ( <i>Crocodylus acutus</i> ): Evidence for a novel environmental androgen. <i>Chemosphere</i> , 2017, 180, 125-129.	8.2	10
46	Proteomic profiling, functional characterization, and immunoneutralization of the venom of <i>Porthidium porrasii</i> , a pitviper endemic to Costa Rica. <i>Acta Tropica</i> , 2019, 193, 113-123.	2.0	10
47	The environmental framework of temporary ponds: A tropical-mediterranean comparison. <i>Catena</i> , 2022, 210, 105845.	5.0	10
48	Habitat Selection of the Terciopelo (Serpentes: Viperidae: <i>Bothrops asper</i> ) in a Lowland Rainforest in Costa Rica. <i>Herpetologica</i> , 2010, 66, 148-158.	0.4	9
49	Cohort-Dependent Sex Ratio Biases in the American Crocodiles ( <i>Crocodylus acutus</i> ) of the Tempisque Basin. <i>Copeia</i> , 2015, 103, 541-545.	1.3	9
50	Phenotypic differences in a cryptic predator: Factors influencing morphological variation in the terciopelo <i>Bothrops asper</i> (Garman, 1884; Serpentes: Viperidae). <i>Toxicon</i> , 2009, 54, 923-937.	1.6	8
51	Quantification of the Evaporation Rates from Six Types of Wetland Cover in Palo Verde National Park, Costa Rica. <i>Water (Switzerland)</i> , 2019, 11, 674.	2.7	8
52	Morphological variation in the lancehead pitviper <i>Bothrops asper</i> (Garman) (Serpentes: Viperidae) from Middle America. <i>Revista De Biología Tropical</i> , 2002, 50, 259-71.	0.4	7
53	Proteomic and toxicological analysis of the venom of <i>Micrurus yatesi</i> and its neutralization by an antivenom. <i>Toxicon: X</i> , 2022, 13, 100097.	2.9	6
54	Dietary Analysis of Helmeted Basilisks, <i>Corytophanes</i> (Reptilia: Corytophanidae). <i>Southwestern Naturalist</i> , 2000, 45, 358.	0.1	5

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55	Cerrophidion godmani in Costa Rica: A Case of Extremely Low Allozyme Variation?. Journal of Herpetology, 1997, 31, 569.	0.5	3
56	Desarrollo de la herpetocultura en Costa Rica: Situación actual de herpetarios y manejo ex situ de reptiles y anfibios. Ciencias Ambientales, 2016, 50, 1.	0.3	3
57	Assessing survival of wild-caught snakes in open venom production systems. Toxicon, 2017, 138, 49-52.	1.6	2
58	Venomomics of the poorly studied hognosed pitvipers Porthidium arcosae and Porthidium volcanicum. Journal of Proteomics, 2021, 249, 104379.	2.4	2
59	Fenología reproductiva de anuros en humedales del bosque tropical seco de Costa Rica. Ciencias Ambientales, 2016, 43, 29.	0.3	1
60	ON THE IDENTITY OF HOG-NOSED PIT-VIPERS FROM WESTERN PANAMA: A REVIEW OF SPECIMENS OF PORTHIDIUM LANSBERGII (SCHLEGEL, 1841) IN LOWER CENTRAL AMERICA.. TECNOCENCIA (Panamá), 2020, 22,0.1 27-44.		1
61	Morphology and seasonality of the sexual segment of the kidney in genus <i>Bothrops</i> snakes. Journal of Morphology, 2022, 283, 236-249.	1.2	0