

# Bruce J Macfadden

## List of Publications by Year in descending order

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146  
papers

7,889  
citations

47006

47  
h-index

51608

86  
g-index

152  
all docs

152  
docs citations

152  
times ranked

5748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global vegetation change through the Miocene/Pliocene boundary. <i>Nature</i> , 1997, 389, 153-158.	27.8	1,841
2	Rapid late Miocene rise of the Bolivian Altiplano: Evidence for removal of mantle lithosphere. <i>Earth and Planetary Science Letters</i> , 2006, 241, 543-556.	4.4	336
3	Large temperature drop across the Eocene–Oligocene transition in central North America. <i>Nature</i> , 2007, 445, 639-642.	27.8	213
4	Mammalian herbivore communities, ancient feeding ecology, and carbon isotopes: A 10 million-year sequence from the Neogene of Florida. <i>Journal of Vertebrate Paleontology</i> , 1996, 16, 103-115.	1.0	178
5	Fossil horses from <i>Eohippus</i> ( <i>Hyracotherium</i> ) to <i>Equus</i> : scaling, Cope's Law, and the evolution of body size. <i>Paleobiology</i> , 1986, 12, 355-369.	2.0	174
6	Fossil horses and carbon isotopes: new evidence for Cenozoic dietary, habitat, and ecosystem changes in North America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1994, 107, 269-279.	2.3	169
7	Digitization of Biodiversity Collections Reveals Biggest Data on Biodiversity. <i>BioScience</i> , 2015, 65, 841-842.	4.9	150
8	Cenozoic Mammalian Herbivores From the Americas: Reconstructing Ancient Diets and Terrestrial Communities. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2000, 31, 33-59.	6.7	143
9	Lower Miocene Stratigraphy along the Panama Canal and Its Bearing on the Central American Peninsula. <i>PLoS ONE</i> , 2008, 3, e2791.	2.5	128
10	Magnetic Polarity Stratigraphy and Mammalian Fauna of the Deseadan (Late Oligocene-Early Miocene) Salla Beds of Northern Bolivia. <i>Journal of Geology</i> , 1985, 93, 223-250.	1.4	125
11	Land mammal biostratigraphy and magnetostratigraphy of the Etadunna Formation (late Oligocene) of South Australia. <i>Journal of Vertebrate Paleontology</i> , 1994, 13, 483-515.	1.0	124
12	Origin of the white shark <i>Carcharodon</i> (Lamniformes: Lamnidae) based on recalibration of the Upper Neogene Pisco Formation of Peru. <i>Palaeontology</i> , 2012, 55, 1139-1153.	2.2	119
13	Diet and habitat of toxodont megaherbivores (Mammalia, Notoungulata) from the late Quaternary of South and Central America. <i>Quaternary Research</i> , 2005, 64, 113-124.	1.7	116
14	Evolution of the grazing niche in Pleistocene mammals from Florida: evidence from stable isotopes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 162, 155-169.	2.3	112
15	EVOLUTION: Fossil Horses—Evidence for Evolution. <i>Science</i> , 2005, 307, 1728-1730.	12.6	112
16	Ancient feeding ecology and niche differentiation of Pleistocene mammalian herbivores from Tarija, Bolivia: morphological and isotopic evidence. <i>Paleobiology</i> , 1997, 23, 77-100.	2.0	111
17	Ancient latitudinal gradients of C3 /C4 grasses interpreted from stable isotopes of New World Pleistocene horse ( <i>Equus</i> ) teeth. <i>Global Ecology and Biogeography</i> , 1999, 8, 137-149.	5.8	101
18	South American fossil mammals and carbon isotopes: a 25 million-year sequence from the Bolivian Andes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1994, 107, 257-268.	2.3	98

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19	Amount Effect recorded in oxygen isotopes of Late Glacial horse ( <i>Equus</i> ) and bison ( <i>Bison</i> ) teeth from the Sonoran and Chihuahuan deserts, southwestern United States. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 337-353.	2.3	97
20	Cenozoic Terrestrial Ecosystem Evolution in Argentina: Evidence from Carbon Isotopes of Fossil Mammal Teeth. <i>Palaios</i> , 1996, 11, 319.	1.3	92
21	Origin and evolution of the grazing guild in new world terrestrial mammals. <i>Trends in Ecology and Evolution</i> , 1997, 12, 182-187.	8.7	89
22	First North American fossil monkey and early Miocene tropical biotic interchange. <i>Nature</i> , 2016, 533, 243-246.	27.8	89
23	Explosive speciation at the base of the adaptive radiation of Miocene grazing horses. <i>Nature</i> , 1988, 336, 466-468.	27.8	87
24	Isotopic discrimination of resource partitioning among ungulates in C3-dominated communities from the Miocene of Florida and California. <i>Paleobiology</i> , 2006, 32, 191-205.	2.0	86
25	Ancient Nursery Area for the Extinct Giant Shark <i>Megalodon</i> from the Miocene of Panama. <i>PLoS ONE</i> , 2010, 5, e10552.	2.5	83
26	Chapter 17: Gigantism, Dwarfism, and Cope's Rule: "Nothing in Evolution Makes Sense without a Phylogeny" <i>Bulletin of the American Museum of Natural History</i> , 2004, 285, 219-237.	3.4	82
27	Ancient ecology of 15-million-year-old browsing mammals within C3 plant communities from Panama. <i>Oecologia</i> , 2004, 140, 169-182.	2.0	81
28	Neogene paleomagnetism and oroclinal bending of the central Andes of Bolivia. <i>Journal of Geophysical Research</i> , 1995, 100, 8153-8167.	3.3	79
29	Revised age of the Salla beds, Bolivia, and its bearing on the age of the Deseadan South American Land Mammal "Age" <i>Journal of Vertebrate Paleontology</i> , 1998, 18, 189-199.	1.0	79
30	Extinct mammalian biodiversity of the ancient New World tropics. <i>Trends in Ecology and Evolution</i> , 2006, 21, 157-165.	8.7	78
31	Fossil horses, carbon isotopes and global change. <i>Trends in Ecology and Evolution</i> , 1994, 9, 481-486.	8.7	75
32	Body mass predicts isotope enrichment in herbivorous mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181020.	2.6	75
33	Chronology of Cenozoic primate localities in South America. <i>Journal of Human Evolution</i> , 1990, 19, 7-21.	2.6	73
34	Natural History Museum Visitors' Understanding of Evolution. <i>BioScience</i> , 2007, 57, 875-882.	4.9	68
35	Exceptional preservation of the white shark <i>Carcharodon</i> ( <i>Lamniformes</i> , <i>Lamnidae</i> ) from the early Pliocene of Peru. <i>Journal of Vertebrate Paleontology</i> , 2009, 29, 1-13.	1.0	68
36	New Data on Miocene Neotropical Provinciality from Cerdas, Bolivia. <i>Journal of Mammalian Evolution</i> , 2009, 16, 175-198.	1.8	67

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37	Late Cenozoic Paleomagnetism and Chronology of Andean Basins of Bolivia: Evidence for Possible Oroclinal Bending. <i>Journal of Geology</i> , 1990, 98, 541-555.	1.4	66
38	Effects of Global Warming on Ancient Mammalian Communities and Their Environments. <i>PLoS ONE</i> , 2009, 4, e5750.	2.5	64
39	Spatial-temporal changes in Andean plateau climate and elevation from stable isotopes of mammal teeth. <i>Earth and Planetary Science Letters</i> , 2010, 289, 530-538.	4.4	63
40	Geographical distribution patterns of <i>Carcharocles megalodon</i> over time reveal clues about extinction mechanisms. <i>Journal of Biogeography</i> , 2016, 43, 1645-1655.	3.0	63
41	Systematics and biogeography of crocodylians from the Miocene of Panama. <i>Journal of Vertebrate Paleontology</i> , 2013, 33, 239-263.	1.0	60
42	Magnetic Polarity Stratigraphy of the Middle Pleistocene (Ensenadan) Tarija Formation of Southern Bolivia. <i>Quaternary Research</i> , 1983, 19, 172-187.	1.7	57
43	Patterns of phylogeny and rates of evolution in fossil horses: hipparions from the Miocene and Pliocene of North America. <i>Paleobiology</i> , 1985, 11, 245-257.	2.0	57
44	Temporal Calibration and Biochronology of the Centenario Fauna, Early Miocene of Panama. <i>Journal of Geology</i> , 2014, 122, 113-135.	1.4	55
45	Revised age of the late Neogene terror bird ( <i>Titanis</i> ) in North America during the Great American Interchange. <i>Geology</i> , 2007, 35, 123.	4.4	52
46	Paleomagnetism, geochronology, and possible tectonic rotation of the middle Miocene Barstow Formation, Mojave Desert, southern California. <i>Bulletin of the Geological Society of America</i> , 1990, 102, 478-493.	3.3	51
47	Middle Pleistocene Climate Change Recorded in Fossil Mammal Teeth from Tarija, Bolivia, and Upper Limit of the Ensenadan Land-Mammal Age. <i>Quaternary Research</i> , 2000, 54, 121-131.	1.7	51
48	3-D FOSSILS FOR K-12 EDUCATION: A CASE EXAMPLE USING THE GIANT EXTINCT SHARK <i>CARCHAROCLES MEGALODON</i> . <i>The Paleontological Society Papers</i> , 2016, 22, 197-209.	0.6	51
49	Land-Mammal Ages, Faunal Heterochrony, and Temporal Resolution in Cenozoic Terrestrial Sequences. <i>Journal of Geology</i> , 1984, 92, 687-705.	1.4	50
50	Induced Magnetization in the Monarch Butterfly, <i>Danaus Plexippus</i> (Insecta, Lepidoptera). <i>Journal of Experimental Biology</i> , 1982, 96, 1-9.	1.7	47
51	Fossil horses from <i>Eohippus</i> ( <i>Hyracotherium</i> ) to <i>Equus</i> , 2: rates of dental evolution revisited. <i>Biological Journal of the Linnean Society</i> , 1988, 35, 37-48.	1.6	46
52	North American Miocene land mammals from Panama. <i>Journal of Vertebrate Paleontology</i> , 2006, 26, 720-734.	1.0	43
53	Exploring the influence of teachers' beliefs and 3D printing integrated STEM instruction on students' STEM motivation. <i>Computers and Education</i> , 2020, 158, 103983.	8.3	43
54	Earliest art in the Americas: incised image of a proboscidean on a mineralized extinct animal bone from Vero Beach, Florida. <i>Journal of Archaeological Science</i> , 2011, 38, 2908-2913.	2.4	39

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55	Diets, habitat preferences, and niche differentiation of Cenozoic sirenians from Florida: evidence from stable isotopes. <i>Paleobiology</i> , 2004, 30, 297-324.	2.0	38
56	Physical properties, geochemistry, and diagenesis of xenarthran teeth: Prospects for interpreting the paleoecology of extinct species. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 291, 180-189.	2.3	36
57	Ancient forests and grasslands in the desert: Diet and habitat of Late Pleistocene mammals from Northcentral Sonora, Mexico. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 297, 391-400.	2.3	36
58	Magnetic polarity stratigraphy of Inchasi: a Pliocene mammal-bearing locality from the Bolivian Andes deposited just before the Great American Interchange. <i>Earth and Planetary Science Letters</i> , 1993, 114, 229-241.	4.4	34
59	Horses in the Cloud: big data exploration and mining of fossil and extant Equus (Mammalia: Equidae). <i>Paleobiology</i> , 2017, 43, 1-14.	2.0	34
60	Cladistic Analysis of Primitive Equids, with Notes on Other Perissodactyls. <i>Systematic Zoology</i> , 1976, 25, 1.	1.6	33
61	New turtles (Chelonia) from the late Eocene through late Miocene of the Panama Canal Basin. <i>Journal of Paleontology</i> , 2012, 86, 539-557.	0.8	33
62	Sharks and rays (Chondrichthyes, Elasmobranchii) from the late Miocene Gatun Formation of Panama. <i>Journal of Paleontology</i> , 2013, 87, 755-774.	0.8	33
63	At the Elbows of Scientists: Shaping Science Teachers' Conceptions and Enactment of Inquiry-Based Instruction. <i>Research in Science Education</i> , 2014, 44, 927-947.	2.3	33
64	Seeking Shared Practice: A Juxtaposition of the Attributes and Activities of Organized Fossil Groups with Those of Professional Paleontology. <i>Journal of Science Education and Technology</i> , 2016, 25, 731-746.	3.9	32
65	Systematics of the Neogene Siwalik hipparions (Mammalia, Equidae) based on cranial and dental morphology. <i>Journal of Vertebrate Paleontology</i> , 1982, 2, 185-218.	1.0	31
66	Pleistocene horses from Tarija, Bolivia, and validity of the genus <i>Onhippidium</i> (Mammalia: Equidae). <i>Journal of Paleontology</i> , 2000, 74, 1075-1085.	1.0	31
67	Quantification of diagenesis in Cenozoic sharks: Elemental and mineralogical changes. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4921-4932.	3.9	31
68	Evolutionary and functional morphology of the knee in fossil and extant horses (Equidae). <i>Journal of Vertebrate Paleontology</i> , 1996, 16, 349-357.	1.0	30
69	Extinct peccary <i>Cynorca occidentalis</i> (Tayassuidae, Tayassuinae) from the Miocene of Panama and correlations to North America. <i>Journal of Paleontology</i> , 2010, 84, 288-298.	0.8	29
70	Early Miocene chondrichthyans from the Culebra Formation, Panama: A window into marine vertebrate faunas before closure the Central American Seaway. <i>Journal of South American Earth Sciences</i> , 2013, 42, 159-170.	1.4	28
71	Training the Next Generation of Scientists about Broader Impacts. <i>Social Epistemology</i> , 2009, 23, 239-248.	1.2	26
72	First Central American record of Anthracotheriidae (Mammalia, Bothriodontinae) from the early Miocene of Panama. <i>Journal of Vertebrate Paleontology</i> , 2013, 33, 421-433.	1.0	25

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73	Confirmation of a Late Oligocene-Early Miocene Age of the Deseadan Salla Beds of Bolivia. <i>Journal of Geology</i> , 1987, 95, 825-828.	1.4	24
74	Dispersal of Pleistocene <i>Equus</i> (Family Equidae) into South America and Calibration of GABI 3 Based on Evidence from Tarija, Bolivia. <i>PLoS ONE</i> , 2013, 8, e59277.	2.5	24
75	<i>Astrohippus</i> and <i>Dinohippus</i> from the Yepãmera local fauna (Hemphillian, Mexico) and implications for the phylogeny of one-toed horses. <i>Journal of Vertebrate Paleontology</i> , 1984, 4, 273-283.	1.0	23
76	Seasonal and geographic climate variabilities during the Last Glacial Maximum in North America: Applying isotopic analysis and macrophysical climate models. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 283, 15-27.	2.3	21
77	Geographic variation in diets of ancient populations of 5-million-year-old (early Pliocene) horses from southern North America. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 266, 83-94.	2.3	20
78	Evolutionary and functional morphology of the shoulder region and stay-apparatus in fossil and extant horses (Equidae). <i>Journal of Vertebrate Paleontology</i> , 1992, 12, 377-386.	1.0	19
79	A reappraisal of the systematics, biogeography, and evolution of fossil horses. <i>Paleobiology</i> , 1982, 8, 315-327.	2.0	18
80	Miocene/Pliocene shift: one step or several?. <i>Nature</i> , 1998, 393, 127-127.	27.8	18
81	Incremental growth and diagenesis of skeletal parts of the lamnoid shark <i>Otodus obliquus</i> from the early Eocene (Ypresian) of Morocco. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 179-192.	2.3	18
82	Calibration of mammoth ( <i>Mammuthus</i> ) dispersal into North America using rare earth elements of Plio-Pleistocene mammals from Florida. <i>Quaternary Research</i> , 2009, 71, 41-48.	1.7	17
83	Paleomagnetism and Neogene clockwise rotation of the Northern Cady Mountains, Mojave Desert of southern California. <i>Journal of Geophysical Research</i> , 1990, 95, 4597-4608.	3.3	16
84	Magnetic polarity stratigraphy and correlation of the Arikaree Group, Arikarean (late Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (Olig		16
85	Reply to Comment on "Rapid late Miocene rise of the Bolivian Altiplano: Evidence for removal of mantle lithosphere" by Garzzone et al. (2006), <i>Earth Planet. Sci. Lett.</i> 241 (2006) 543-556. <i>Earth and Planetary Science Letters</i> , 2007, 259, 630-633.	4.4	16
86	Three-toed browsing horse <i>Anchitherium</i> (Equidae) from the Miocene of Panama. <i>Journal of Paleontology</i> , 2009, 83, 489-492.	0.8	16
87	New floridatragulines (Mammalia, Camelidae) from the early Miocene Las Cascadas Formation, Panama. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 456-475.	1.0	16
88	Late Miocene chondrichthyans from Lago Bayano, Panama: Functional diversity, environment and biogeography. <i>Journal of Paleontology</i> , 2017, 91, 512-547.	0.8	16
89	Late Hemphillian monodactyl horses (Mammalia, Equidae) from the Bone Valley Formation of central Florida. <i>Journal of Paleontology</i> , 1986, 60, 466-475.	0.8	15
90	Cranium of <i>Equus insulatus</i> (Mammalia, Equidae) from the middle Pleistocene of Tarija, Bolivia. <i>Journal of Vertebrate Paleontology</i> , 1987, 7, 325-334.	1.0	14

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91	Horses, the Fossil Record, and Evolution. , 1988, , 131-158.		14
92	A Computational- and Storage-Cloud for Integration of Biodiversity Collections. , 2013, , .		14
93	Sr-isotopic, paleomagnetic, and biostratigraphic calibration of horse evolution: Evidence from the Miocene of Florida. <i>Geology</i> , 1991, 19, 242.	4.4	13
94	Middle Pleistocene age of the fossiliferous sedimentary sequence from Tarija, Bolivia. <i>Quaternary Research</i> , 2013, 79, 268-273.	1.7	13
95	Magnetic Butterflies A Case Study of the Monarch (Lepidoptera, Danaidae). <i>Topics in Geobiology</i> , 1985, , 407-415.	0.5	12
96	Applications of 3D Paleontological Data at the Florida Museum of Natural History. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
97	Integrated Chronology, Flora and Faunas, and Paleoecology of the Alajuela Formation, Late Miocene of Panama. <i>PLoS ONE</i> , 2017, 12, e0170300.	2.5	10
98	Terrestrial Mammalian Herbivore Response to Declining Levels of Atmospheric CO <sub>2</sub> During the Cenozoic: Evidence from North American Fossil Horses (Family Equidae). , 2005, , 273-292.		9
99	Humans were contemporaneous with late Pleistocene mammals in Florida: evidence from rare earth elemental analyses. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 708-716.	1.0	9
100	Fossil Horses, Orthogenesis, and Communicating Evolution in Museums. <i>Evolution: Education and Outreach</i> , 2012, 5, 29-37.	0.8	9
101	New early Miocene protoceratids (Mammalia, Artiodactyla) from Panama. <i>Journal of Vertebrate Paleontology</i> , 2015, 35, e970688.	1.0	9
102	Not Looking a Gift Horse in the Mouth: Exploring the Merits of a Studentâ€“Teacherâ€“Scientist Partnership. <i>Journal of Biological Education</i> , 2016, 50, 174-184.	1.5	9
103	Giant short-faced bears ( <i>Arctodus simus</i> ) in Pleistocene Florida USA, a substantial range extension. <i>Journal of Paleontology</i> , 2010, 84, 79-87.	0.8	8
104	Ancient latitudinal gradients of C3/C4 grasses interpreted from stable isotopes of New World Pleistocene horse ( <i>Equus</i> ) teeth. <i>Global Ecology and Biogeography</i> , 1999, 8, 137.	5.8	8
105	Earliest known Hipparion from Holarctica. <i>Nature</i> , 1977, 265, 532-533.	27.8	7
106	Evolution, museums and society. <i>Trends in Ecology and Evolution</i> , 2008, 23, 589-591.	8.7	7
107	Comparative Diagenesis and Rare Earth Element Variation in Miocene Invertebrate and Vertebrate Fossils from Panama. <i>Journal of Geology</i> , 2015, 123, 491-507.	1.4	7
108	Late Miocene three-toed horse <i>Protohippus</i> (Mammalia, Equidae) from southern Alabama. <i>Journal of Paleontology</i> , 1998, 72, 149-152.	0.8	6

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109	Gomphothere proboscidean (<i>Gomphotherium</i>) from the late Neogene of Panama. Journal of Paleontology, 2015, 89, 360-365.	0.8	6
110	Preorbital facial fossae, œOnohippidium, and origin of South American Pleistocene horses: response to Alberdi and Prado. Journal of Vertebrate Paleontology, 1998, 18, 673-675.	1.0	5
111	Devil's Den, Florida: Rare Earth Element Analysis Indicates Contemporaneity of Humans and Latest Pleistocene Fauna. PaleoAmerica, 2015, 1, 266-275.	1.5	4
112	University Natural History Museums: The Public Education Mission. Curator, 2000, 43, 123-138.	0.6	3
113	The œGallop Pollœ Using Evaluation to Develop Fossil Horses in Cyberspace, An Online Exhibition. Curator, 2000, 43, 211-230.	0.6	3
114	Systematics, phylogeny, and evolution of fossil horses: a rational alternative to Eisenmann et al. (1987). Journal of Vertebrate Paleontology, 1987, 7, 230-235.	1.0	2
115	A large eagle (Aves, Accipitridae) from the early Miocene of Panama. Journal of Paleontology, 2016, 90, 1012-1015.	0.8	2
116	Chronology of Cenozoic primate localities in South America. , 1990, , 7-21.		1
117	Paleoecology of New Chondrichthyan Fauna from Middle Miocene (Barstovian), Gadsden County, Florida, USA. The Paleontological Society Special Publications, 2014, 13, 102-102.	0.0	1
118	Quaternary gomphotheres (Mammalia: Proboscidea: Gomphotheriidae) from the continental shelf, Pearl Islands, Panama. Quaternary International, 2016, 392, 335-348.	1.5	1
119	INCREASING THE RESEARCH POTENTIAL OF DIGITIZED FOSSILS: A PILOT STUDY USING SPECIFY TO ATTACH STABLE ISOTOPE DATA TO VOUCHERED MUSEUM SPECIMENS. , 2016, , .		1
120	Origin and Evolution of the Grazing Guild in Terrestrial Mammals: Morphological and Isotopic Evidence. The Paleontological Society Special Publications, 1996, 8, 252-252.	0.0	0
121	Equine dental evolution. , 2011, , 3-10.		0
122	Engaging Undergraduates in Informal Learning Experiences. The Paleontological Society Special Publications, 2012, 12, 247-256.	0.0	0
123	The Early Miocene Protoceratids (Mammalia, Artiodactyla) from the Panama Canal Basin. The Paleontological Society Special Publications, 2014, 13, 164-164.	0.0	0
124	FossilœA National Network of Fossil Clubs and Professional Paleontologists in the U.S.. The Paleontological Society Special Publications, 2014, 13, 128-128.	0.0	0
125	Expansion of the Panama Canal and the Rise of the Isthmus. The Paleontological Society Special Publications, 2014, 13, 132-133.	0.0	0
126	Ecology of Miocene Amazonian Mammals Based on Evidence from Stable Isotopes. The Paleontological Society Special Publications, 2014, 13, 43-44.	0.0	0



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127	Digitizing Paleontological Collections for New Audiences: Past Practices and the Potential for Public Participation. The Paleontological Society Special Publications, 2014, 13, 127-128.	0.0	0
128	Presentation of the 2018 Paleontological Society Pojeta Award to Eugenie C. Scott. Journal of Paleontology, 2019, 93, 1033-1033.	0.8	0
129	Were You Successful? Evaluation and Metrics. , 2019, , 236-248.		0
130	Introduction: Science, STEM, and Society. , 2019, , 1-15.		0
131	NSF and Broader Impacts. , 2019, , 16-28.		0
132	Innovation, Opportunity, and Integration. , 2019, , 29-41.		0
133	Communication and Dissemination. , 2019, , 42-56.		0
134	Promoting Yourself and Optimizing Impact. , 2019, , 57-67.		0
135	Collaboration, Authorship, and Networks. , 2019, , 68-80.		0
136	Strategic versus Curiosity Science. , 2019, , 81-92.		0
137	Know Your Audience. , 2019, , 93-106.		0
138	Diversity, Equity, and Inclusion. , 2019, , 107-120.		0
139	Mentoring and Role Models. , 2019, , 121-135.		0
140	Formal Kâ€“12 Education and Partners. , 2019, , 136-149.		0
141	Informal STEM Learning in Museums and Beyond. , 2019, , 159-177.		0
142	Public Participation and Community (Citizen) Science. , 2019, , 178-193.		0
143	Computers and Cyberimpacts. , 2019, , 194-209.		0
144	Developing a Broader Impacts Plan. , 2019, , 210-223.		0

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145	Project Management and Sustainability. , 2019, , 224-235.		0
146	Wrap-Up, the Future, and Broader Impacts 3.0. , 2019, , 249-258.		0