Massimo Pigliucci

List of Publications by Year in descending order

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103 papers	10,179 citations	61984 43 h-index	37204 96 g-index
114 all docs	114 docs citations	114 times ranked	9246 citing authors

#	Article	IF	Citations
1	Jack of all trades, master of some? On the role of phenotypic plasticity in plant invasions. Ecology Letters, 2006, 9, 981-993.	6.4	1,063
2	Evolution of phenotypic plasticity: where are we going now?. Trends in Ecology and Evolution, 2005, 20, 481-486.	8.7	986
3	Phenotypic plasticity and evolution by genetic assimilation. Journal of Experimental Biology, 2006, 209, 2362-2367.	1.7	806
4	Epigenetics for ecologists. Ecology Letters, 2008, 11, 106-115.	6.4	804
5	Is evolvability evolvable?. Nature Reviews Genetics, 2008, 9, 75-82.	16.3	461
6	Phenotypic integration: studying the ecology and evolution of complex phenotypes. Ecology Letters, 2003, 6, 265-272.	6.4	395
7	DO WE NEED AN EXTENDED EVOLUTIONARY SYNTHESIS?. Evolution; International Journal of Organic Evolution, 2007, 61, 2743-2749.	2.3	376
8	Invasion of diverse habitats by few Japanese knotweed genotypes is correlated with epigenetic differentiation. Ecology Letters, 2012, 15, 1016-1025.	6.4	285
9	PERSPECTIVE: GENETIC ASSIMILATION AND A POSSIBLE EVOLUTIONARY PARADOX: CAN MACROEVOLUTION SOMETIMES BE SO FAST AS TO PASS US BY?. Evolution; International Journal of Organic Evolution, 2003, 57, 1455-1464.	2.3	228
10	Genotypeâ€“phenotype mapping and the end of the â€˜genes as blueprintâ€™ metaphor. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 557-566.	4.0	214
11	Manipulative Approaches to Testing Adaptive Plasticity: Phytochromeâ€Mediated Shadeâ€Avoidance Responses in Plants. American Naturalist, 1999, 154, S43-S54.	2.1	210
12	Control of Phenotypic Plasticity Via Regulatory Genes. American Naturalist, 1993, 142, 366-370.	2.1	205
13	Gene regulation, quantitative genetics and the evolution of reaction norms. Evolutionary Ecology, 1995, 9, 154-168.	1.2	192
14	Experimental alteration of DNA methylation affects the phenotypic plasticity of ecologically relevant traits in Arabidopsis thaliana. Evolutionary Ecology, 2010, 24, 541-553.	1.2	187
15	The fall and rise of Dr Pangloss: adaptationism and the Spandrels paper 20 years later. Trends in Ecology and Evolution, 2000, 15, 66-70.	8.7	178
16	What Role Does Heritable Epigenetic Variation Play in Phenotypic Evolution?. BioScience, 2010, 60, 232-237.	4.9	175
17	An Extended Synthesis for Evolutionary Biology. Annals of the New York Academy of Sciences, 2009, 1168, 218-228.	3.8	150
18	PERSPECTIVE: GENETIC ASSIMILATION AND A POSSIBLE EVOLUTIONARY PARADOX: CAN MACROEVOLUTION SOMETIMES BE SO FAST AS TO PASS US BY?. Evolution; International Journal of Organic Evolution, 2003, 57, 1455.	2.3	143

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19	Species as family resemblance concepts: The (dis-)solution of the species problem?. BioEssays, 2003, 25, 596-602.	2.5	135
20	Adaptive phenotypic plasticity: the case of heterophylly in aquatic plants. Perspectives in Plant Ecology, Evolution and Systematics, 2000, 3, 1-18.	2.7	119
21	What, if Anything, Is an Evolutionary Novelty?. Philosophy of Science, 2008, 75, 887-898.	1.0	116
22	SHADE-INDUCED PLASTICITY AND ITS ECOLOGICAL SIGNIFICANCE IN WILD POPULATIONS OF ARABIDOPSIS THALIANA. Ecology, 2002, 83, 1965-1980.	3.2	111
23	Developmental phenotypic plasticity: Where ecology and evolution meet molecular biology. BioEssays, 1997, 19, 519-525.	2.5	104
24	Plasticity in salt tolerance traits allows for invasion of novel habitat by Japanese knotweed s. l. (Fallopia japonica and F.xbohemica, Polygonaceae). American Journal of Botany, 2008, 95, 931-942.	1.7	98
25	Traits of invasives reconsidered: phenotypic comparisons of introduced invasive and introduced noninvasive plant species within two closely related clades. American Journal of Botany, 2006, 93, 188-196.	1.7	85
26	Elements of an Extended Evolutionary Synthesis. , 2010, , 3-18.		79
27	Ontogenetic Reaction Norms in Lobelia Siphilitica (Lobeliaceae): Response to Shading. Ecology, 1995, 76, 2134-2144.	3.2	67
28	On the Concept of Biological Race and Its Applicability to Humans. Philosophy of Science, 2003, 70, 1161-1172.	1.0	64
29	MUTATIONAL CONTRIBUTIONS TO GENETIC VARIANCEâ€COVARIANCE MATRICES: AN EXPERIMENTAL APPROACH USING INDUCED MUTATIONS IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 1999, 53, 1692-1703.	2.3	63
30	Reaction norms of Arabidopsis. IV. Relationships between plasticity and fitness. Heredity, 1996, 76, 427-436.	2.6	62
31	The mismeasure of machine: Synthetic biology and the trouble with engineering metaphors. Studies in History and Philosophy of Science Part C:Studies in History and Philosophy of Biological and Biomedical Sciences, 2013, 44, 660-668.	1.3	61
32	Phenotypic Plasticity of Growth Trajectories in Two Species of Lobelia in Response to Nutrient Availability. Journal of Ecology, 1997, 85, 265.	4.0	60
33	Developmental phenotypic plasticity: Where internalprogramming meets the external environment. Current Opinion in Plant Biology, 1998, 1, 87-91.	7.1	56
34	Phenotypic plasticity to light intensity in Arabidopsis thaliana: invariance of reaction norms and phenotypic integration. Evolutionary Ecology, 2002, 16, 27-47.	1.2	56
35	Genetic Varianceâ€“covariance Matrices: A Critique of the Evolutionary Quantitative Genetics Research Program. Biology and Philosophy, 2006, 21, 1-23.	1.4	56
36	Implementation of a novel framework for assessing species plasticity in biological invasions: responses of Centaurea and Crepis to phosphorus and water availability. Journal of Ecology, 2007, 95, 1001-1013.	4.0	56

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37	Why Machine-Information Metaphors are Bad for Science and Science Education. Science and Education, 2011, 20, 453-471.	2.7	55
38	R eaction norms of A rabidopsis (Brassicaceae). III. R esponse to nutrients in 26 populations from a worldwide collection. American Journal of Botany, 1995, 82, 1117-1125.	1.7	54
39	Ecological and evolutionary genetics of Arabidopsis. Trends in Plant Science, 1998, 3, 485-489.	8.8	53
40	Differentiation for flowering time and phenotypic integration in Arabidopsis thaliana in response to season length and vernalization. Oecologia, 2001, 127, 501-508.	2.0	51
41	Ontogenetic phenotypic plasticity during the reproductive phase in Arabidopsis thaliana (Brassicaceae). American Journal of Botany, 1997, 84, 887-895.	1.7	48
42	The Extended (Evolutionary) Synthesis Debate: Where Science Meets Philosophy. BioScience, 2014, 64, 511-516.	4.9	48
43	On the Limits of Quantitative Genetics for the Study of Phenotypic Evolution. Acta Biotheoretica, 1997, 45, 143-160.	1.5	47
44	Comparative Studies of Evolutionary Responses to Light Environments inArabidopsis. American Naturalist, 2003, 161, 68-82.	2.1	45
45	Sewall Wrightâ€™s adaptive landscapes: 1932 vs. 1988. Biology and Philosophy, 2008, 23, 591-603.	1.4	45
46	What makes weird beliefs thrive? The epidemiology of pseudoscience. Philosophical Psychology, 2015, 28, 1177-1198.	0.9	44
47	Phenotypic Plasticity and Integration in Response to Flooded Conditions in Natural Accessions of Arabidopsis thaliana (L.) Heynh (Brassicaceae). Annals of Botany, 2002, 90, 199-207.	2.9	43
48	Genes `forâ€™ Phenotypes: A Modern History View. Biology and Philosophy, 2001, 16, 189-213.	1.4	41
49	Evolution of phenotypic integration in Brassica (Brassicaceae). American Journal of Botany, 2002, 89, 655-663.	1.7	38
50	Touchy and Bushy: Phenotypic Plasticity and Integration in Response to Wind Stimulation inArabidopsis thaliana. International Journal of Plant Sciences, 2002, 163, 399-408.	1.3	37
51	Is Knowledge of Science Associated with Higher Skepticism of Pseudoscientific Claims?. American Biology Teacher, 2004, 66, 536-548.	0.2	36
52	The Fake, the Flimsy, and the Fallacious: Demarcating Arguments in Real Life. Argumentation, 2015, 29, 431-456.	1.0	36
53	Ecology and Evolutionary Biology of Arabidopsis. The Arabidopsis Book, 2002, 1, e0003.	0.5	32
54	Finding the Way in Phenotypic Space: The Origin and Maintenance of Constraints on Organismal Form. Annals of Botany, 2007, 100, 433-438.	2.9	32

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55	Prove it! The Burden of Proof Game in Science vs. Pseudoscience Disputes. Philosophia (United States), 2014, 42, 487-502.	0.4	32
56	Why Do Irrational Beliefs Mimic Science? The Cultural Evolution of Pseudoscience. Theoria (Stockholm), 2017, 83, 78-97.	0.2	32
57	Phenotypic plasticity is the major determinant of changes in phenotypic integration inArabidopsis. New Phytologist, 2001, 152, 419-430.	7.3	31
58	Buffer zone. Nature, 2002, 417, 598-599.	27.8	31
59	EVIDENCE OF LOCAL ADAPTATION TO COARSE-GRAINED ENVIRONMENTAL VARIATION IN ARABIDOPSIS THALIANA. Evolution; International Journal of Organic Evolution, 2007, 61, 2419-2432.	2.3	29
60	Mutational Contributions to Genetic Variance-Covariance Matrices: An Experimental Approach Using Induced Mutations in Arabidopsis thaliana. Evolution; International Journal of Organic Evolution, 1999, 53, 1692.	2.3	27
61	A comprehensive test of the â€˜limiting resourcesâ€™ framework applied to plant tolerance to apical meristem damage. Oikos, 2010, 119, 359-369.	2.7	27
62	Reaction Norms of Arabidopsis (Brassicaceae). III. Response to Nutrients in 26 Populations from a Worldwide Collection. American Journal of Botany, 1995, 82, 1117.	1.7	26
63	Epigenetics is Back! HSP90 and Phenotypic Variation. Cell Cycle, 2003, 2, 34-35.	2.6	24
64	Modelling phenotypic plasticity. II. Do genetic correlations matter?. Heredity, 1996, 77, 453-460.	2.6	23
65	Plasticity to wind is modular and genetically variable in Arabidopsis thaliana. Evolutionary Ecology, 2009, 23, 669-685.	1.2	23
66	SELECTION IN A MODEL SYSTEM: ECOLOGICAL GENETICS OF FLOWERING TIME IN ARABIDOPSIS THALIANA. Ecology, 2003, 84, 1700-1712.	3.2	22
67	Phenotypic Integration in Chestnut (Castanea sativa Mill.): Leaves versus Fruits. Botanical Gazette, 1991, 152, 514-521.	0.6	21
68	Relationships Between Vegetative and Life History Traits and Fitness in a Novel Field Environment: Impacts of Herbivores. Evolutionary Ecology, 2005, 19, 583-601.	1.2	20
69	The proximateâ€“ultimate distinction and evolutionary developmental biology: causal irrelevance versus explanatory abstraction. Biology and Philosophy, 2015, 30, 653-670.	1.4	20
70	Morphological responses to simulated wind in the genus Brassica (Brassicaceae): allopolyploids and their parental species. American Journal of Botany, 2005, 92, 810-818.	1.7	19
71	The Proper Role of Population Genetics in Modern Evolutionary Theory. Biological Theory, 2008, 3, 316-324.	1.5	19
72	What are we to make of the concept of race?. Studies in History and Philosophy of Science Part C:Studies in History and Philosophy of Biological and Biomedical Sciences, 2013, 44, 272-277.	1.3	17

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73	Genetics and evolution of phenotypic plasticity to nutrient stress in Arabidopsis: drift, constraints or selection?. Biological Journal of the Linnean Society, 1998, 64, 17-40.	1.6	16
74	Between holism and reductionism: a philosophical primer on emergence. Biological Journal of the Linnean Society, 2014, 112, 261-267.	1.6	15
75	Scientism and Pseudoscience: A Philosophical Commentary. Journal of Bioethical Inquiry, 2015, 12, 569-575.	1.5	15
76	The Borderlands Between Science And Philosophy: An Introduction. Quarterly Review of Biology, 2008, 83, 7-15.	0.1	14
77	From molecules to phenotypes? â€“ The promise and limits of integrative biology. Basic and Applied Ecology, 2003, 4, 297-306.	2.7	13
78	On the Different Ways of â€œDoing Theoryâ€•in Biology. Biological Theory, 2013, 7, 287-297.	1.5	12
79	On the Relationship between Science and Ethics. Zygon, 2003, 38, 871-894.	0.4	11
80	Lindsay Craigâ€"The So-Called Extended Synthesis and Population Genetics (Biological Theory 5: 117â€“123,) Tj ETQq0 0 0 rgBT /Overlo	1.5	11
81	Gould on Morton, Redux: What can the debate reveal about the limits of data?. Studies in History and Philosophy of Science Part C:Studies in History and Philosophy of Biological and Biomedical Sciences, 2015, 52, 22-31.	1.3	11
82	Characters and Environments. , 2001, , 363-388.		11
83	Mutational effects on constraints on character evolution and phenotypic plasticity inArabidopsis thaliana. Journal of Genetics, 1998, 77, 95-103.	0.7	10
84	Science and fundamentalism. EMBO Reports, 2005, 6, 1106-1109.	4.5	10
85	Selection Dynamics in Native and Introduced Persicaria Species. International Journal of Plant Sciences, 2010, 171, 519-528.	1.3	10
86	Human races. Current Biology, 2013, 23, R185-R187.	3.9	8
87	Modelling phenotypic plasticity. I. Linear and higher-order effects of dominance, drift, environmental frequency and selection on a one-locus, two-allele model. Journal of Genetics, 1992, 71, 135-150.	0.7	4
88	Postgenomic Musings. Science, 2007, 317, 1172-1173.	12.6	3
89	Samir Okasha: Evolution and the levels of selection. Biology and Philosophy, 2009, 24, 551-560.	1.4	3
90	More than provocative, less than scientific: A commentary on the editorial decision to publish Cofnas (2020). Philosophical Psychology, 2020, 33, 893-898.	0.9	3

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91	Reply from M. Pigliucci. Trends in Ecology and Evolution, 1996, 11, 384.	8.7	2
92	Sewall Wright meets artificial life. Trends in Ecology and Evolution, 1997, 12, 161-162.	8.7	2
93	Primates, philosophers and the biological basis of morality: a review of primates and philosophers by Frans De Waal, Princeton University Press, 2006, 200 pp. Biology and Philosophy, 2007, 22, 611-618.	1.4	2
94	The Meaning of â€œTheoryâ€•in Biology. Biological Theory, 2013, 7, 285-286.	1.5	2
95	When Science Studies Religion: Six Philosophy Lessons for Science Classes. Science and Education, 2013, 22, 49-67.	2.7	2
96	The Nature of Evolutionary Biology: At the Borderlands Between Historical and Experimental Science. History, Philosophy and Theory of the Life Sciences, 2013, , 87-100.	0.4	2
97	Is there a will to meaning?. Annals of the New York Academy of Sciences, 2018, 1432, 63-65.	3.8	2
98	EVOLUTIONARY BIOLOGY: PUZZLE SOLVING OR PARADIGM SHIFTING?. Quarterly Review of Biology, 2006, 81, 377-379.	0.1	1
99	EVOLUTION AND ITS MAJOR TRANSITIONS. Evolution; International Journal of Organic Evolution, 2011, 65, 3642-3644.	2.3	1
100	Butterflies in the spotlight. BioEssays, 1997, 19, 285-286.	2.5	0
101	THE SOCIETY FOR THE STUDY OF EVOLUTION. Evolution; International Journal of Organic Evolution, 2007, 55, 1075-1075.	2.3	0
102	Philosophical reflections on Darwin and evolutionary theory. Trends in Ecology and Evolution, 2012, 27, 258.	8.7	0
103	The power of meaning: the quest for an existential roadmap. Annals of the New York Academy of Sciences, 2018, 1432, 10-28.	3.8	0