Sandra Diaz

List of Publications by Year
in descending order

160 papers	42,553 citations	8181 76 h-index	7160 153 g-index
167 all docs	167 docs citations	167 times ranked	36272 citing authors

#	Article	IF	Citations
1	Expert perspectives on global biodiversity loss and its drivers and impacts on people. Frontiers in Ecology and the Environment, 2023, 21, 94-103.	4.0	49
2	The acquisitiveâ€“conservative axis of leaf trait variation emerges even in homogeneous environments. Annals of Botany, 2022, 129, 709-722.	2.9	18
3	Conservation needs to integrate knowledge across scales. Nature Ecology and Evolution, 2022, 6, 118-119.	7.8	40
4	Rethinking individual relationships with entities of nature. People and Nature, 2022, 4, 596-611.	3.7	9
5	Ten facts about land systems for sustainability. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	157
6	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. Nature Ecology and Evolution, 2022, 6, 36-50.	7.8	89
7	Herbivory, intraspecific trait variability and back to herbivory. Oikos, 2022, 2022, .	2.7	3
8	Analyzing individual drivers of global changes promotes inaccurate long-term policies in deforestation hotspots: The case of Gran Chaco. Biological Conservation, 2022, 269, 109536.	4.1	8
9	Improving landscapeâ€scale productivity estimates by integrating traitâ€based models and remotelyâ€sensed foliarâ€trait and canopyâ€structural data. Ecography, 2022, 2022, .	4.5	4
10	Reply to: Restoration prioritization must be informed by marginalized people. Nature, 2022, 607, E7-E9.	27.8	5
11	Working landscapes need at least 20% native habitat. Conservation Letters, 2021, 14, e12773.	5.7	116
12	PhenoSpace: A Shiny application to visualize trait data in the phenotypic space of the global spectrum of plant form and function. Ecology and Evolution, 2021, 11, 1526-1534.	1.9	6
13	Low resilience at the early stages of recovery of the semiâ€arid Chaco forestâ€”Evidence from a field experiment. Journal of Ecology, 2021, 109, 3246-3259.	4.0	4
14	Biodiversity and the challenge of pluralism. Nature Sustainability, 2021, 4, 567-572.	23.7	180
15	People have shaped most of terrestrial nature for at least 12,000 years. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	370
16	Botanical Monography in the Anthropocene. Trends in Plant Science, 2021, 26, 433-441.	8.8	23
17	Nature's contributions to people: Weaving plural perspectives. One Earth, 2021, 4, 910-915.	6.8	51
18	Thermal differences between juveniles and adults increased over time in European forest trees. Journal of Ecology, 2021, 109, 3944-3957.	4.0	4

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19	Fine-root traits in the global spectrum of plant form and function. Nature, 2021, 597, 683-687.	27.8	102
20	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
21	Not a melting pot: Plant species aggregate in their nonâ€native range. Global Ecology and Biogeography, 2020, 29, 482-490.	5.8	16
22	Where does the forest come back from? Soil and litter seed banks and the juvenile bank as sources of vegetation resilience in a semiarid Neotropical forest. Journal of Vegetation Science, 2020, 31, 1017-1027.	2.2	9
23	Set ambitious goals for biodiversity and sustainability. Science, 2020, 370, 411-413.	12.6	225
24	Global priority areas for ecosystem restoration. Nature, 2020, 586, 724-729.	27.8	489
25	Working with Indigenous and local knowledge (ILK) in largeâ€scale ecological assessments: Reviewing the experience of the IPBES Global Assessment. Journal of Applied Ecology, 2020, 57, 1666-1676.	4.0	67
26	Levers and leverage points for pathways to sustainability. People and Nature, 2020, 2, 693-717.	3.7	141
27	Knowledge coâ€production with traditional herders on cattle grazing behaviour for better management of speciesâ€rich grasslands. Journal of Applied Ecology, 2020, 57, 1677-1687.	4.0	40
28	Post-fire resprouting capacity of seasonally dry forest species â€“ Two quantitative indices. Forest Ecology and Management, 2020, 473, 118267.	3.2	15
29	The Influence of Taxonomy and Environment on Leaf Trait Variation Along Tropical Abiotic Gradients. Frontiers in Forests and Global Change, 2020, 3, .	2.3	19
30	Interactions between changing climate and biodiversity: Shaping humanityâ€™s future. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6295-6296.	7.1	46
31	Plural valuation of nature for equity and sustainability: Insights from the Global South. Global Environmental Change, 2020, 63, 102115.	7.8	104
32	Use your power for good: plural valuation of nature â€“ the Oaxaca statement. Global Sustainability, 2020, 3, .	3.3	62
33	Working with Indigenous, local and scientific knowledge in assessments of nature and natureâ€™s linkages with people. Current Opinion in Environmental Sustainability, 2020, 43, 8-20.	6.3	180
34	Investments' role in ecosystem degradationâ€”Response. Science, 2020, 368, 377-377.	12.6	5
35	Meta-analysis Shows That Rapid Phenotypic Change in Angiosperms in Response to Environmental Change Is Followed by Stasis. American Naturalist, 2019, 194, 840-853.	2.1	7
36	Assessing the utility of conserving evolutionary history. Biological Reviews, 2019, 94, 1740-1760.	10.4	65

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37	Reply to: â€œGlobal conservation of phylogenetic diversity captures more than just functional diversityâ€. Nature Communications, 2019, 10, 858.	12.8	13
38	Informing trait-based ecology by assessing remotely sensed functional diversity across a broad tropical temperature gradient. Science Advances, 2019, 5, eaaw8114.	10.3	51
39	Pervasive human-driven decline of life on Earth points to the need for transformative change. Science, 2019, 366, .	12.6	1,213
40	Covariance of Sun and Shade Leaf Traits Along a Tropical Forest Elevation Gradient. Frontiers in Plant Science, 2019, 10, 1810.	3.6	23
41	Assessing nature's contributions to people. Science, 2018, 359, 270-272.	12.6	1,661
42	Structural and defensive roles of angiosperm leaf venation network reticulation across an Andesâ€“Amazon elevation gradient. Journal of Ecology, 2018, 106, 1683-1699.	4.0	18
43	Fire effects on the soil seed bank and postâ€fire resilience of a semiâ€arid shrubland in central Argentina. Austral Ecology, 2018, 43, 46-55.	1.5	27
44	Native plant naming by high-school students of different socioeconomic status: implications for botany education. International Journal of Science Education, 2018, 40, 46-66.	1.9	13
45	Equity and sustainability in the Anthropocene: a socialâ€“ecological systems perspective on their intertwined futures. Global Sustainability, 2018, 1, .	3.3	204
46	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	7.8	397
47	Tropical forest leaves may darken in response to climate change. Nature Ecology and Evolution, 2018, 2, 1918-1924.	7.8	23
48	Plant functional trait change across a warming tundra biome. Nature, 2018, 562, 57-62.	27.8	451
49	Prioritizing phylogenetic diversity captures functional diversity unreliably. Nature Communications, 2018, 9, 2888.	12.8	144
50	Forest conservation: Remember Gran Chaco. Science, 2017, 355, 465-465.	12.6	75
51	Predicting traitâ€environment relationships for venation networks along an Andesâ€Amazon elevation gradient. Ecology, 2017, 98, 1239-1255.	3.2	31
52	Valuing natureâ€™s contributions to people: the IPBES approach. Current Opinion in Environmental Sustainability, 2017, 26-27, 7-16.	6.3	1,007
53	Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. Ecology Letters, 2017, 20, 730-740.	6.4	100
54	Linking the influence and dependence of people on biodiversity across scales. Nature, 2017, 546, 65-72.	27.8	474

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55	Assessing traitâ€based scaling theory in tropical forests spanning a broad temperature gradient. Global Ecology and Biogeography, 2017, 26, 1357-1373.	5.8	57
56	Global climatic drivers of leaf size. Science, 2017, 357, 917-921.	12.6	580
57	A novel metaâ€analytical approach to improve systematic review of rates and patterns of microevolution. Ecology and Evolution, 2017, 7, 5821-5832.	1.9	4
58	Combining ecological aspects and local knowledge for the conservation of two native mammals in the Gran Chaco. Journal of Arid Environments, 2017, 147, 54-62.	2.4	13
59	Mapping local and global variability in plant trait distributions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10937-E10946.	7.1	159
60	Towards a thesaurus of plant characteristics: an ecological contribution. Journal of Ecology, 2017, 105, 298-309.	4.0	114
61	A global method for calculating plant <scp>CSR</scp> ecological strategies applied across biomes worldâ€wide. Functional Ecology, 2017, 31, 444-457.	3.6	330
62	Scale dependence of canopy trait distributions along a tropical forest elevation gradient. New Phytologist, 2017, 214, 973-988.	7.3	57
63	Plant community resilience in the face of fire: experimental evidence from a semiâ€arid shrubland. Austral Ecology, 2016, 41, 501-511.	1.5	12
64	Response to Vergara et al. (2015)â€"Fruiting phenology as a â€œtriggering attributeâ€•of invasion process: Do invasive species take advantage of seed dispersal service provided by native birds?. Biological Invasions, 2016, 18, 2773-2774.	2.4	1
65	Socio-Environmental Systems (SES) Research: what have we learned and how can we use this information in future research programs. Current Opinion in Environmental Sustainability, 2016, 19, 160-168.	6.3	89
66	Examining variation in the leaf mass per area of dominant species across two contrasting tropical gradients in light of community assembly. Ecology and Evolution, 2016, 6, 5674-5689.	1.9	26
67	Landâ€use intensification effects on functional properties in tropical plant communities. Ecological Applications, 2016, 26, 174-189.	3.8	33
68	Leaf traits of African woody savanna species across climate and soil fertility gradients: evidence for conservative versus acquisitive resourceâ€use strategies. Journal of Ecology, 2016, 104, 1357-1369.	4.0	56
69	Response to Comment on â€œWorldwide evidence of a unimodal relationship between productivity and plant species richnessâ€• Science, 2016, 351, 457-457.	12.6	5
70	Why protect nature? Rethinking values and the environment. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1462-1465.	7.1	1,074
71	The rocky path from policy-relevant science to policy implementation â€" a case study from the South American Chaco. Current Opinion in Environmental Sustainability, 2016, 19, 57-66.	6.3	43
72	The global spectrum of plant form and function. Nature, 2016, 529, 167-171.	27.8	2,022

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73	Leaf mechanical resistance in plant trait databases: comparing the results of two common measurement methods. Annals of Botany, 2016, 117, 209-214.	2.9	7
74	<scp>BHPMF</scp> â€“ a hierarchical <scp>B</scp>ayesian approach to gapâ€filling and trait prediction for macroecology and functional biogeography. Global Ecology and Biogeography, 2015, 24, 1510-1521.	5.8	132
75	Land-use intensification effects on functional properties in tropical plant communities. , 2015, , 150521083605001.		0
76	The IPBES Conceptual Framework â€” connecting nature and people. Current Opinion in Environmental Sustainability, 2015, 14, 1-16.	6.3	1,658
77	Post-burning regeneration of the Chaco seasonally dry forest: germination response of dominant species to experimental heat shock. Oecologia, 2015, 177, 689-699.	2.0	45
78	Optimal strategies for sampling functional traits in speciesâ€rich forests. Functional Ecology, 2015, 29, 1325-1331.	3.6	19
79	A Rosetta Stone for Natureâ€™s Benefits to People. PLoS Biology, 2015, 13, e1002040.	5.6	177
80	Worldwide evidence of a unimodal relationship between productivity and plant species richness. Science, 2015, 349, 302-305.	12.6	315
81	The social value of biodiversity and ecosystem services from the perspectives of different social actors. Ecology and Society, 2015, 20, .	2.3	96
82	Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability. Current Opinion in Environmental Sustainability, 2015, 14, 76-85.	6.3	559
83	Global effects of land use on local terrestrial biodiversity. Nature, 2015, 520, 45-50.	27.8	2,669
84	Does functional trait diversity predict aboveâ€ground biomass and productivity of tropical forests? Testing three alternative hypotheses. Journal of Ecology, 2015, 103, 191-201.	4.0	265
85	Of carrots and sticks. Nature Geoscience, 2014, 7, 778-779.	12.9	28
86	Which is a better predictor of plant traits: temperature or precipitation?. Journal of Vegetation Science, 2014, 25, 1167-1180.	2.2	323
87	An evolutionary perspective on leaf economics: phylogenetics of leaf mass per area in vascular plants. Ecology and Evolution, 2014, 4, 2799-2811.	1.9	53
88	Approaches to defining a planetary boundary for biodiversity. Global Environmental Change, 2014, 28, 289-297.	7.8	236
89	Large changes in carbon storage under different land-use regimes in subtropical seasonally dry forests of southern South America. Agriculture, Ecosystems and Environment, 2014, 197, 68-76.	5.3	40
90	Contrasting functional trait syndromes underlay woody alien success in the same ecosystem. Austral Ecology, 2013, 38, 443-451.	1.5	42

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91	Functional traits, the phylogeny of function, and ecosystem service vulnerability. Ecology and Evolution, 2013, 3, 2958-2975.	1.9	424
92	Plant functional diversity and carbon storage â€“ an empirical test in semiâ€arid forest ecosystems. Journal of Ecology, 2013, 101, 18-28.	4.0	273
93	Shrub biomass estimation in the semiarid Chaco forest: a contribution to the quantification of an underrated carbon stock. Annals of Forest Science, 2013, 70, 515-524.	2.0	51
94	A novel framework for linking functional diversity of plants with other trophic levels for the quantification of ecosystem services. Journal of Vegetation Science, 2013, 24, 942-948.	2.2	209
95	Ecosystem Function Measurement, Terrestrial Communities. , 2013, , 72-89.		7
96	Predictive systems ecology. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131452.	2.6	114
97	Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012â€“20. Current Opinion in Environmental Sustainability, 2012, 4, 101-105.	6.3	62
98	Imanuel Noy-Meirâ€”the Ecologist and the Man. Israel Journal of Ecology and Evolution, 2011, 57, 5-16.	0.6	1
99	Linking functional diversity and social actor strategies in a framework for interdisciplinary analysis of nature's benefits to society. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 895-902.	7.1	216
100	A generic structure for plant trait databases. Methods in Ecology and Evolution, 2011, 2, 202-213.	5.2	78
101	FDiversity: a software package for the integrated analysis of functional diversity. Methods in Ecology and Evolution, 2011, 2, 233-237.	5.2	210
102	Global patterns of leaf mechanical properties. Ecology Letters, 2011, 14, 301-312.	6.4	418
103	Effects of arbuscular mycorrhizal colonisation on shoot and root decomposition of different plant species and species mixtures. Soil Biology and Biochemistry, 2011, 43, 466-468.	8.8	12
104	Can ecosystem properties be fully translated into service values? An economic valuation of aquatic plant services. , 2011, 21, 3083-3103.		63
105	Biodiversity targets after 2010. Current Opinion in Environmental Sustainability, 2010, 2, 3-8.	6.3	124
106	Towards an assessment of multiple ecosystem processes and services via functional traits. Biodiversity and Conservation, 2010, 19, 2873-2893.	2.6	759
107	Functional traits of alien plants across contrasting climatic and landâ€use regimes: do aliens join the locals or try harder than them?. Journal of Ecology, 2010, 98, 17-27.	4.0	179
108	Functional traits and the growthâ€“mortality tradeâ€off in tropical trees. Ecology, 2010, 91, 3664-3674.	3.2	788

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109	Mycorrhizal community resilience in response to experimental plant functional type removals in a woody ecosystem. Journal of Ecology, 2009, 97, 1291-1301.	4.0	46
110	Twentieth year of the Journal of Vegetation Science: the journal for all vegetation scientists. Journal of Vegetation Science, 2009, 20, 1-2.	2.2	11
111	Biodiversity in forest carbon sequestration initiatives: not just a side benefit. Current Opinion in Environmental Sustainability, 2009, 1, 55-60.	6.3	155
112	Quantifying the Contribution of Organisms to the Provision of Ecosystem Services. BioScience, 2009, 59, 223-235.	4.9	312
113	Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1305-1312.	7.1	1,736
114	Incorporating biodiversity in climate change mitigation initiatives. , 2009, , 149-166.		16
115	More than the sum of its parts? Assessing litter heterogeneity effects on the decomposition of litter mixtures through leaf chemistry. Plant and Soil, 2008, 303, 151-159.	3.7	113
116	What Drives Accelerated Land Cover Change in Central Argentina? Synergistic Consequences of Climatic, Socioeconomic, and Technological Factors. Environmental Management, 2008, 42, 181-189.	2.7	216
117	Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. Ecology Letters, 2008, 11, 1065-1071.	6.4	1,913
118	Scaling environmental change through the communityâ€level: a traitâ€based responseâ€andâ€effect framework for plants. Global Change Biology, 2008, 14, 1125-1140.	9.5	981
119	Functional characters, texture and stress. Journal of Vegetation Science, 2008, 19, 1-2.	2.2	2
120	Two Measurement Methods of Leaf Dry Matter Content Produce Similar Results in a Broad Range of Species. Annals of Botany, 2007, 99, 955-958.	2.9	58
121	Incorporating plant functional diversity effects in ecosystem service assessments. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20684-20689.	7.1	1,242
122	Direct and indirect effects of climate on decomposition in native ecosystems from central Argentina. Austral Ecology, 2007, 32, 749-757.	1.5	12
123	Plant trait responses to grazing ? a global synthesis. Global Change Biology, 2007, 13, 313-341.	9.5	815
124	Filtering processes in the assembly of plant communities: Are species presence and abundance driven by the same traits?. Journal of Vegetation Science, 2007, 18, 911-920.	2.2	121
125	Plant Functional Types: Are We Getting Any Closer to the Holy Grail?. , 2007, , 149-164.		237
126	Biodiversity Loss Threatens Human Well-Being. PLoS Biology, 2006, 4, e277.	5.6	984

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127	Positive interaction between invasive plants: The influence of Pyracantha angustifolia on the recruitment of native and exotic woody species. Austral Ecology, 2006, 31, 293-300.	1.5	74
128	Functional signatures, epizoochory, mapping from satellites and Editors' Award. Applied Vegetation Science, 2005, 8, 1-2.	1.9	2
129	Palaeoâ€ecology, switches, competition/disturbance and ancient forests. Journal of Vegetation Science, 2005, 16, 1-2.	2.2	7
130	Plant invasions in undisturbed ecosystems: The triggering attribute approach. Journal of Vegetation Science, 2005, 16, 723-728.	2.2	50
131	Specific Leaf Area and Dry Matter Content Estimate Thickness in Laminar Leaves. Annals of Botany, 2005, 96, 1129-1136.	2.9	374
132	GRAZING EFFECTS ON RANGELAND DIVERSITY: A SYNTHESIS OF CONTEMPORARY MODELS. , 2005, 15, 757-773.		375
133	Below-ground biomass and productivity of a grazed site and a neighbouring ungrazed exclosure in a grassland in central Argentina. Austral Ecology, 2004, 29, 201-208.	1.5	102
134	Mycorrhizal colonization mediated by species interactions in arctic tundra. Oecologia, 2003, 137, 399-404.	2.0	35
135	Leaf traits and herbivore selection in the field and in cafeteria experiments. Austral Ecology, 2003, 28, 642-650.	1.5	180
136	The mycorrhizal dependence of subordinates determines the effect of arbuscular mycorrhizal fungi on plant diversity. Ecology Letters, 2003, 6, 388-391.	6.4	101
137	Seed bank dynamics in tallâ€tussock grasslands along an altitudinal gradient. Journal of Vegetation Science, 2003, 14, 253-258.	2.2	61
138	Foliar resistance to simulated extreme temperature events in contrasting plant functional and chorological types. Global Change Biology, 2002, 8, 1139-1145.	9.5	24
139	Leaf traits as indicators of resourceâ€use strategy in floras with succulent species. New Phytologist, 2002, 154, 147-157.	7.3	235
140	Does hairiness matter in Harare? Resolving controversy in global comparisons of plant trait responses to ecosystem disturbance. New Phytologist, 2002, 154, 7-9.	7.3	32
141	Does Biodiversity Matter to Terrestrial Ecosystem Processes and Services?. Global Change - the IGBP Series, 2002, , 165-167.	2.1	2
142	Ecosystem Function Measurement, Terrestrial Communities. , 2001, , 321-344.		3
143	Edaphic patchiness influences grassland regeneration from the soil seed-bank in mountain grasslands of central Argentina. Austral Ecology, 2001, 26, 205-212.	1.5	41
144	Can grazing response of herbaceous plants be predicted from simple vegetative traits?. Journal of Applied Ecology, 2001, 38, 497-508.	4.0	390

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145	Consequences of changing biodiversity. Nature, 2000, 405, 234-242.	27.8	3,209
146	Title is missing!. Plant and Soil, 2000, 218/2, 21-30.	3.7	322
147	Leaf structure and defence control litter decomposition rate across species and life forms in regional floras on two continents. New Phytologist, 1999, 143, 191-200.	7.3	424
148	Plant functional types and disturbance dynamics â€“ Introduction. Journal of Vegetation Science, 1999, 10, 603-608.	2.2	89
149	Plant functional traits, ecosystem structure and landâ€use history along a climatic gradient in centralâ€western Argentina. Journal of Vegetation Science, 1999, 10, 651-660.	2.2	201
150	Seed size and shape are good predictors of seed persistence in soil in temperate mountain grasslands of Argentina. Seed Science Research, 1999, 9, 341-345.	1.7	127
151	Functional implications of traitâ€“environment linkages in plant communities. , 1999, , 338-362.		77
152	Plant functional traits and environmental filters at a regional scale. Journal of Vegetation Science, 1998, 9, 113-122.	2.2	653
153	Floristic composition, biomass, and aboveground net plant production in grazed and protected sites in a mountain grassland of central Argentina. Acta Oecologica, 1998, 19, 97-105.	1.1	92
154	Plant functional types and ecosystem function in relation to global change. Journal of Vegetation Science, 1997, 8, 463-474.	2.2	372
155	Plant functional types and ecosystem function in relation to global change. Journal of Vegetation Science, 1997, 8, 463-474.	2.2	577
156	The influence of habitat structure on arthropod diversity in Argentine semi-arid Chaco forest. Journal of Vegetation Science, 1995, 6, 349-356.	2.2	97
157	Elevated CO 2 Responsiveness, Interactions at the Community Level and Plant Functional Types. Journal of Biogeography, 1995, 22, 289.	3.0	40
158	Community structure in montane grasslands of central Argentina in relation to land use. Journal of Vegetation Science, 1994, 5, 483-488.	2.2	87
159	Grazing and the Phenology of Flowering and Fruiting in a Montane Grassland in Argentina: A Niche Approach. Oikos, 1994, 70, 287.	2.7	28
160	Research priorities for maintaining biodiversityâ€™s contributions to people in LatinÂAmerica. UCL Open Environment, 0, 1, .	0.0	7