Maria Belen Pico

List of Publications by Year
in descending order

133 papers	5,060 citations	94433 37 h-index	102487 66 g-index
139 all docs	139 docs citations	139 times ranked	3827 citing authors

#	Article	IF	Citations
1	The genome of melon (<i>Cucumis melo</i> L.). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11872-11877.	7.1	654
2	Genetic diversity of a germplasm collection of Cucurbita pepo using SRAP and AFLP markers. Theoretical and Applied Genetics, 2003, 107, 271-282.	3.6	335
3	Application of Genomic Tools in Plant Breeding. Current Genomics, 2012, 13, 179-195.	1.6	236
4	Viral diseases causing the greatest economic losses to the tomato crop. II. The Tomato yellow leaf curl virus â€" a review. Scientia Horticulturae, 1996, 67, 151-196.	3.6	214
5	Transcriptome characterization and high throughput SSRs and SNPs discovery in Cucurbita pepo (Cucurbitaceae). BMC Genomics, 2011, 12, 104.	2.8	177
6	<i>De novo</i> assembly of the zucchini genome reveals a wholeâ€genome duplication associated with the origin of the <i>Cucurbita</i> genus. Plant Biotechnology Journal, 2018, 16, 1161-1171.	8.3	160
7	Bin mapping of genomic and EST-derived SSRs in melon (Cucumis melo L.). Theoretical and Applied Genetics, 2008, 118, 139-150.	3.6	115
8	High-throughput SNP genotyping in Cucurbita pepo for map construction and quantitative trait loci mapping. BMC Genomics, 2012, 13, 80.	2.8	110
9	Molecular Diversity of a Germplasm Collection of Squash (<i>Cucurbita moschata</i>) Determined by SRAP and AFLP Markers. Crop Science, 2004, 44, 653-664.	1.8	98
10	An SNP-based saturated genetic map and QTL analysis of fruit-related traits in Zucchini using Genotyping-by-sequencing. BMC Genomics, 2017, 18, 94.	2.8	93
11	Title is missing!. Euphytica, 1998, 101, 259-271.	1.2	92
12	A set of EST-SNPs for map saturation and cultivar identification in melon. BMC Plant Biology, 2009, 9, 90.	3.6	90
13	MELOGEN: an EST database for melon functional genomics. BMC Genomics, 2007, 8, 306.	2.8	87
14	Transcriptome sequencing for SNP discovery across Cucumis melo. BMC Genomics, 2012, 13, 280.	2.8	86
15	SNP genotyping in melons: genetic variation, population structure, and linkage disequilibrium. Theoretical and Applied Genetics, 2013, 126, 1285-1303.	3.6	85
16	Involvement of ethylene biosynthesis and signalling in fruit set and early fruit development in zucchini squash (Cucurbita pepoL.). BMC Plant Biology, 2013, 13, 139.	3.6	80
17	Synthetic conversion of leaf chloroplasts into carotenoid-rich plastids reveals mechanistic basis of natural chromoplast development. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21796-21803.	7.1	77
18	Mechanical transmission of Tomato leaf curl New Delhi virus to cucurbit germplasm: selection of tolerance sources in Cucumis melo. Euphytica, 2015, 204, 679-691.	1.2	73

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19	Variability of candidate genes, genetic structure and association with sugar accumulation and climacteric behavior in a broad germplasm collection of melon (Cucumis melo L.). BMC Genetics, 2015, 16, 28.	2.7	72
20	<i><scp>ETHQV</scp>6.3</i> is involved in melon climacteric fruit ripening and is encoded by a <scp>NAC</scp> domain transcription factor. Plant Journal, 2017, 91, 671-683.	5.7	71
21	Genetic diversity of some accessions of Cucurbita maxima from Spain using RAPD and SBAP markers. Genetic Resources and Crop Evolution, 2003, 50, 227-238.	1.6	64
22	An oligo-based microarray offers novel transcriptomic approaches for the analysis of pathogen resistance and fruit quality traits in melon (Cucumis melo L.). BMC Genomics, 2009, 10, 467.	2.8	61
23	Towards a TILLING platform for functional genomics in Piel de Sapo melons. BMC Research Notes, 2011, 4, 289.	1.4	59
24	Repeated domestication of melon (<i>Cucumis melo</i>) in Africa and Asia and a new close relative from India. American Journal of Botany, 2018, 105, 1662-1671.	1.7	59
25	Mapping and Introgression of QTL Involved in Fruit Shape Transgressive Segregation into â€˜Piel de Sapoâ€™ Melon (Cucucumis melo L.). PLoS ONE, 2014, 9, e104188.	2.5	58
26	Resistance to Tomato leaf curl New Delhi virus inÂ<i>Cucurbita</i>Âspp.. Annals of Applied Biology, 2016, 169, 91-105.	2.5	57
27	Developing tomato breeding lines resistant to tomato yellow leaf curl virus. Plant Breeding, 1999, 118, 537-542.	1.9	55
28	Melon Transcriptome Characterization: Simple Sequence Repeats and Single Nucleotide Polymorphisms Discovery for High Throughput Genotyping across the Species. Plant Genome, 2011, 4, 118-131.	2.8	53
29	Widening the genetic basis of virus resistance in tomato. Scientia Horticulturae, 2002, 94, 73-89.	3.6	52
30	A mutation in the melon Vacuolar Protein Sorting 41prevents systemic infection of Cucumber mosaic virus. Scientific Reports, 2017, 7, 10471.	3.3	51
31	Resistance to tomato leaf curl New Delhi virus in melon is controlled by a major QTL located in chromosome 11. Plant Cell Reports, 2017, 36, 1571-1584.	5.6	50
32	Fruit flesh volatile and carotenoid profile analysis within the <i>Cucumis melo</i> L. species reveals unexploited variability for future genetic breeding. Journal of the Science of Food and Agriculture, 2018, 98, 3915-3925.	3.5	50
33	Pumpkin and Winter Squash. , 2008, , 317-349.		48
34	A new genomic library of melon introgression lines in a cantaloupe genetic background for dissecting desirable agronomical traits. BMC Plant Biology, 2016, 16, 154.	3.6	48
35	Genetic diversity of Spanish Cucurbita pepo landraces: an unexploited resource for summer squash breeding. Genetic Resources and Crop Evolution, 2012, 59, 1169-1184.	1.6	47
36	Resistance to melon vine decline derived from Cucumis melo ssp. agrestis: genetic analysis of root structure and root response. Plant Breeding, 2004, 123, 66-72.	1.9	42

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37	Fruit quality assessment of watermelons grafted onto citron melon rootstock. Journal of the Science of Food and Agriculture, 2017, 97, 1646-1655.	3.5	41
38	Improved Diagnostic Techniques for Tomato Yellow Leaf Curl Virus in Tomato Breeding Programs. Plant Disease, 1999, 83, 1006-1012.	1.4	40
39	First TILLING Platform in Cucurbita pepo: A New Mutant Resource for Gene Function and Crop Improvement. PLoS ONE, 2014, 9, e112743.	2.5	40
40	Inheritance analysis and identification of SNP markers associated with ZYMV resistance in Cucurbita pepo. Molecular Breeding, 2017, 37, 1.	2.1	39
41	Quantitative trait loci analysis of melon (Cucumis melo L.) domestication-related traits. Theoretical and Applied Genetics, 2017, 130, 1837-1856.	3.6	37
42	Re-evaluation of the role of Indian germplasm as center of melon diversification based on genotyping-by-sequencing analysis. BMC Genomics, 2019, 20, 448.	2.8	35
43	Screening a variable germplasm collection of Cucumis melo L. for seedling resistance to Macrophomina phaseolina. Euphytica, 2015, 206, 287-300.	1.2	34
44	Whole-genome resequencing of Cucurbita pepo morphotypes to discover genomic variants associated with morphology and horticulturally valuable traits. Horticulture Research, 2019, 6, 94.	6.3	34
45	First Report of <i>Tomato leaf curl New Delhi virus</i> Infecting Zucchini in Morocco. Plant Disease, 2018, 102, 1045-1045.	1.4	33
46	QTL Analyses in Multiple Populations Employed for the Fine Mapping and Identification of Candidate Genes at a Locus Affecting Sugar Accumulation in Melon (Cucumis melo L.). Frontiers in Plant Science, 2017, 8, 1679.	3.6	32
47	Searching for new resistance sources to tomato yellow leaf curl virus within a highly variable wild Lycopersicon genetic pool. Acta Physiologiae Plantarum, 2000, 22, 344-350.	2.1	30
48	A Major QTL Located in Chromosome 8 of Cucurbita moschata Is Responsible for Resistance to Tomato Leaf Curl New Delhi Virus. Frontiers in Plant Science, 2020, 11, 207.	3.6	30
49	Performance of<i>Cucumis melo</i>ssp.<i>agrestis</i>as a rootstock for melon. Journal of Horticultural Science and Biotechnology, 2007, 82, 184-190.	1.9	28
50	First Report of Tomato Leaf Curl New Delhi Virus Infecting Cucurbit Plants in Algeria. Plant Disease, 2019, 103, 3291-3291.	1.4	26
51	Natural Resistances to Viruses in Cucurbits. Agronomy, 2021, 11, 23.	3.0	26
52	Quantitative detection of Cucumber vein yellowing virus in susceptible and partially resistant plants using real-time PCR. Journal of Virological Methods, 2005, 128, 14-20.	2.1	25
53	Diversity in root architecture and response to P deficiency in seedlings of Cucumis melo L.. Euphytica, 2011, 181, 323-339.	1.2	25
54	Sources of parthenocarpy for Zucchini breeding: relationship with ethylene production and sensitivity. Euphytica, 2014, 200, 349-362.	1.2	25

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55	Screening Cucumis sativus landraces for resistance to cucumber vein yellowing virus. Plant Breeding, 2003, 122, 426-430.	1.9	23
56	Seeds morpho-colourimetric analysis as complementary method to molecular characterization of melon diversity. Scientia Horticulturae, 2015, 192, 441-452.	3.6	23
57	<i>Cucumis metuliferus</i> is resistant to rootâ€knot nematode <i>Mi1.2</i> gene (a)virulent isolates and a promising melon rootstock. Plant Pathology, 2018, 67, 1161-1167.	2.4	23
58	Genetics of Root System Architecture Using Near-isogenic Lines of Melon. Journal of the American Society for Horticultural Science, 2008, 133, 448-458.	1.0	20
59	First RNA-seq approach to study fruit set and parthenocarpy in zucchini (Cucurbita pepo L.). BMC Plant Biology, 2019, 19, 61.	3.6	19
60	Diversity in Expression of Phosphorus (P) Responsive Genes in Cucumis melo L. PLoS ONE, 2012, 7, e35387.	2.5	18
61	Molecular and morphological characterisation of the oldest Cucumis melo L. seeds found in the Western Mediterranean Basin. Archaeological and Anthropological Sciences, 2019, 11, 789-810.	1.8	17
62	Root transcriptional responses of two melon genotypes with contrasting resistance to Monosporascus cannonballus (Pollack et Uecker) infection. BMC Genomics, 2012, 13, 601.	2.8	16
63	CmVPS41 Is a General Gatekeeper for Resistance to Cucumber Mosaic Virus Phloem Entry in Melon. Frontiers in Plant Science, 2019, 10, 1219.	3.6	16
64	Response of two Citrullus amarus accessions to isolates of three species of Meloidogyne and their graft compatibility with watermelon. Crop Protection, 2019, 119, 208-213.	2.1	16
65	Resistant Sources and Genetic Control of Resistance to ToLCNDV in Cucumber. Microorganisms, 2021, 9, 913.	3.6	16
66	Effect of temperature on disease severity of charcoal rot of melons caused by Macrophomina phaseolina: implications for selection of resistance sources. European Journal of Plant Pathology, 2020, 158, 431-441.	1.7	15
67	Mapping a Partial Andromonoecy Locus in Citrullus lanatus Using BSA-Seq and GWAS Approaches. Frontiers in Plant Science, 2020, 11, 1243.	3.6	15
68	Genetics of Melon Yellows Virus Resistance Derived from Cucumis melo ssp. agrestis. European Journal of Plant Pathology, 1999, 105, 453-464.	1.7	14
69	RNA-Seq Transcriptome Analysis Provides Candidate Genes for Resistance to Tomato Leaf Curl New Delhi Virus in Melon. Frontiers in Plant Science, 2021, 12, 798858.	3.6	14
70	Grafting Snake Melon [Cucumis melo L. subsp. melo Var. flexuosus (L.) Naudin] in Organic Farming: Effects on Agronomic Performance; Resistance to Pathogens; Sugar, Acid, and VOC Profiles; and Consumer Acceptance. Frontiers in Plant Science, 2021, 12, 613845.	3.6	13
71	A temporal genetic analysis of disease resistance genes: resistance to melon vine decline derived from Cucumis melo var. agrestis. Plant Breeding, 2000, 119, 329-334.	1.9	12
72	Genetic Structure of Lycopersicon pimpinellifolium (Solanaceae) Populations Collected after the ENSO Event of 1997â€“1998. Genetic Resources and Crop Evolution, 2007, 54, 359-377.	1.6	12

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73	New Cucumis Rootstocks for Melon: â€˜UPV-FAâ€™ and â€˜UPV-FMyâ€™. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 792-797.	1.0	12
74	First Report of <i>Neocosmospora falciformis</i> Causing Wilt and Root Rot of Muskmelon in Spain. Plant Disease, 2020, 104, 1256.	1.4	12
75	A comprehensive RNA-Seq-based gene expression atlas of the summer squash (Cucurbita pepo) provides insights into fruit morphology and ripening mechanisms. BMC Genomics, 2021, 22, 341.	2.8	12
76	Identification of Markers Linked to a Celery Mosaic Virus Resistance Gene in Celery. Journal of the American Society for Horticultural Science, 2001, 126, 432-435.	1.0	12
77	A cryptic variation in a member of the Ovate Family Proteins is underlying the melon fruit shape QTL fsqs8.1. Theoretical and Applied Genetics, 2022, 135, 785-801.	3.6	12
78	Pathogenicity of fungi associated with melon vine decline and selection strategies for breeding resistant cultivars. Annals of Applied Biology, 2000, 137, 141-151.	2.5	11
79	â€˜MAK-10â€™: A Long Shelf-life Charentais Breeding Line Developed by Introgression of a Genomic Region from Makuwa Melon. Hortscience: A Publication of the American Society for Hortcultural Science, 2017, 52, 1633-1638.	1.0	11
80	Candidate gene analysis of Tomato leaf curl New Delhi virus resistance in Cucumis melo. Scientia Horticulturae, 2019, 243, 12-20.	3.6	11
81	Melon Genetic Resources Characterization for Rind Volatile Profile. Agronomy, 2020, 10, 1512.	3.0	11
82	Resistance in melon to <i>Monosporascus cannonballus</i> and <i>M. eutypoides</i>: Fungal pathogens associated with Monosporascus root rot and vine decline. Annals of Applied Biology, 2020, 177, 101-111.	2.5	11
83	Minor crops of Mesoamerica in early sources (II). Herbs used as condiments. , 2000, 47, 541-552.		10
84	â€˜Piel de Sapoâ€™ Breeding Lines Tolerant to Melon Vine Decline. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 1458-1460.	1.0	10
85	Quantitative detection of Monosporascus cannonballus in infected melon roots using real-time PCR. European Journal of Plant Pathology, 2008, 120, 147-156.	1.7	9
86	Genetic Diversity Studies in Cucurbits Using Molecular Tools. , 2011, , 140-198.		9
87	â€˜Carmenâ€™, a Yellow Canary Melon Breeding Line Resistant to Podosphaera xanthii, Aphis gossypii, and Cucurbit Yellow Stunting Disorder Virus. Hortscience: A Publication of the American Society for Hortcultural Science, 2018, 53, 1072-1075.	1.0	9
88	Transcriptomic analysis of a nearâ€isogenic line of melon with high fruit flesh firmness during ripening. Journal of the Science of Food and Agriculture, 2021, 101, 754-777.	3.5	9
89	Minor crops of Mesoamerica in early sources (I). Leafy vegetables. , 2000, 47, 527-540.		8
90	A Watermelon mosaic virus clone tagged with the yellow visual maker phytoene synthase facilitates scoring infectivity in melon breeding programs. European Journal of Plant Pathology, 2019, 153, 1317-1323.	1.7	8

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91	Diversity of Melon Accessions from Northeastern Brazil and Their Relationships with Germplasms of Diverse Origins. Journal of the American Society for Horticultural Science, 2015, 140, 504-517.	1.0	8
92	Carotenoid fortification of zucchini fruits using a viral RNA vector. Biotechnology Journal, 2022, 17, e2100328.	3.5	8
93	New melon introgression lines in a Piel de Sapo genetic background with desirable agronomical traits from dudaim melons. Euphytica, 2019, 215, 1.	1.2	7
94	Neocosmospora keratoplastica, a relevant human fusarial pathogen is found to be associated with wilt and root rot of Muskmelon and Watermelon crops in Spain: epidemiological and molecular evidences. European Journal of Plant Pathology, 2020, 156, 1189-1196.	1.7	7
95	ARTIFICIAL INOCULATION METHODS AND SELECTION CRITERIA FOR BREEDING MELONS AGAINST VINE DECLINE. Acta Horticulturae, 2000, , 155-162.	0.2	7
96	Fine mapping of wmv1551, a resistance gene to Watermelon mosaic virus in melon. Molecular Breeding, 2019, 39, 1.	2.1	6
97	Resistance to Three Distinct Begomovirus Species in the Agronomical Superior Tropical Pumpkin Line AVPU1426 Developed at the World Vegetable Center. Agronomy, 2021, 11, 1256.	3.0	6
98	Large-scale gene gains and losses molded the NLR defense arsenal during the Cucurbita evolution. Planta, 2021, 254, 82.	3.2	6
99	First Report of Cucurbit Chlorotic Yellows Virus Infecting Cucumber and Zucchini in Algeria. Plant Disease, 2020, 104, 1264-1264.	1.4	6
100	Effects of root architecture on response to melon vine decline. Journal of Horticultural Science and Biotechnology, 2008, 83, 616-623.	1.9	5
101	Brazilian melon landraces resistant to <i>Podosphaera xanthii</i> are unique germplasm resources. Annals of Applied Biology, 2017, 171, 214-228.	2.5	5
102	Melon Genome Regions Associated with TGR-1551-Derived Resistance to Cucurbit yellow stunting disorder virus. International Journal of Molecular Sciences, 2020, 21, 5970.	4.1	5
103	Analysis of aroma-related volatile compounds affected by â€˜Ginsen Makuwaâ€™ genomic regions introgressed in â€˜Vedrantaisâ€™ melon background. Scientia Horticulturae, 2021, 276, 109664.	3.6	5
104	Genetics and Genomics of Cucurbita spp.. Plant Genetics and Genomics: Crops and Models, 2016, , 211-227.	0.3	4
105	Resistance to Cucumber Green Mottle Mosaic Virus in Cucumis melo. Plants, 2021, 10, 1077.	3.5	4
106	Cucumis melo L. New Breeding Lines Tolerant to Melon Vine Decline. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 2022-2024.	1.0	4
107	Agromorphological genetic diversity of Spanish traditional melons. Genetic Resources and Crop Evolution, 2017, 64, 1687-1706.	1.6	3
108	Evidence of the Role of QTL Epistatic Interactions in the Increase of Melon Fruit Flesh Content during Domestication. Agronomy, 2020, 10, 1064.	3.0	3

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109	THE SPANISH MELON GENOMICS INITIATIVE. Acta Horticulturae, 2007, , 47-54.	0.2	3
110	A new introgression line collection to improve â€˜Piel de Sapoâ€™ melons. Acta Horticulturae, 2017, , 81-86.	0.2	2
111	Evaluation of two potential<i>Cucumis</i>spp. resources for grafting melons. Acta Horticulturae, 2017, , 157-162.	0.2	2
112	GENETIC RESOURCES OF LYCOPERSICON AT THE INSTITUTE FOR THE CONSERVATION AND IMPROVEMENT OF AGRODIVERSITY (COMAV). Acta Horticulturae, 2008, , 293-298.	0.2	2
113	Spanish Melon Landraces: Revealing Useful Diversity by Genomic, Morphological, and Metabolomic Analysis. International Journal of Molecular Sciences, 2022, 23, 7162.	4.1	2
114	Inheritance of resistance to<i>Podosphaera xanthii</i>in melon accessions AM-55 and AC-15. Acta Horticulturae, 2017, , 63-68.	0.2	1
115	Morphological and molecular characterization of new melon germplasm resistant to<i>Podosphaera xanthii</i>. Acta Horticulturae, 2017, , 69-74.	0.2	1
116	EvaluaciÃ³n de la diversidad genÃ©tica de la Monastrell, una variedad antigua en la provincia de Alicante (EspaÃ±a) mediante Genotipado por SecuenciaciÃ³n (GBS). BIO Web of Conferences, 2017, 9, 01019.	0.2	1
117	Interspecific hybrids of wild Cucumis species (â€˜Fianâ€™ and â€˜Fimyâ€™): new rootstocks for melon highly resistant to biotic soil stress. Acta Horticulturae, 2020, , 169-172.	0.2	1
118	THE STUDY OF MOLECULAR DIVERSITY IN NATURAL POPULATIONS OF WILD AND WEEDY TOMATOES AND ITS IMPLICATIONS IN TOMATO BREEDING. Acta Horticulturae, 2008, , 249-256.	0.2	0
119	GENETIC DIVERSITY OF INTRODUCED ACCESSIONS OF FOUR SPECIES OF BANKSIA (PROTEACEAE) AS REVEALED BY RAPDS AND TBP MARKERS. Acta Horticulturae, 2012, , 751-756.	0.2	0
120	DIVERSITY IN MELON FLESH COLOR: TOOLS FOR GENETIC ANALYSIS. Acta Horticulturae, 2015, , 121-125.	0.2	0
121	Angolan vegetable crops have unique genotypes of potential value for future breeding programmes. South African Journal of Science, 2016, 112, 12.	0.7	0
122	New tools for breeding cantaloupe melons: first introgression line collection of makuwa melons into Charentais genetic background. Acta Horticulturae, 2017, , 75-80.	0.2	0
123	Evaluation ofCucurbita moschataÃ—Cucurbita maximarootstocks against ToLCNDV. Acta Horticulturae, 2017, , 217-222.	0.2	0
124	Tolerance to ToLCNDV in <i>Cucurbita</i> spp.. Acta Horticulturae, 2017, , 31-36.	0.2	0
125	ADVANCES IN BREEDING MELONS FOR RESISTANCE TO VINE DECLINE. Acta Horticulturae, 2007, , 39-46.	0.2	0
126	Using genetics to improve stress resistance through altering root architecture.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , .	1.0	0

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127	AN ANALYSIS IN THE STRUCTURE OF A GENETICALLY CHARACTERIZED MELON GERMPLASM COLLECTION FOR CLIMACTERIC - NON-CLIMACTERIC RIPENING BEHAVIOUR. Acta Horticulturae, 2015, , 95-98.	0.2	0
128	CRITICAL THINKING OUTCOME ASSESSMENT IN A FIRST YEAR DEGREE COURSE. INTED Proceedings, 2016, , .	0.0	0
129	BOTANY TEACHING RESOURCES IN UNIVERSITY. INTED Proceedings, 2016, , .	0.0	0
130	EVALUATION OF THE OUTCOME APPLICATION AND PRACTICAL THINKING IN LIFE SCIENCES. EDULEARN Proceedings, 2016, , .	0.0	0
131	EVALUATION OF SOFT SKILLS THROUGH RUBRICS IN SUBJECTS RELATED TO LIFE SCIENCES. , 2016, , .		0
132	THE NEED TO LEVEL OUT STUDENTSâ€™ KNOWLEDGE IN UNDERGRADUATES CONTEXT. , 2017, , .		0
133	SUBJECT DESIGN THROUGH AN EXPERIENCE METHODOLOGY. GATHER GOOD PRACTICES TOWARDS A BETTER TEACHING. , 2017, , .		0