

SUPPLEMENTARY MATERIALS

Article

Scientific Research in Ecuador: A Bibliometric Analysis

Supplementary Materials:

Table S1. Most representative journal articles of the universities scientific production.

No.	Journal Articles	Total documents	CiteScore 2019	SJR ¹	P ²	Q ³
1	RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao	513	0.4	0.145	11	4
2	Espacios	511	0.5	0.215	19	4
3	Physical Review Letters	267	15.6	3.588	95	1
4	PLoS ONE	259	5.2	1.023	91	1
5	Physical Review D	216	8.6	1.664	95	1
6	Revista Ecuatoriana de Neurologia	196	0.3	0.139	10	4
7	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics	193	9.4	1.795	93	1
8	Journal of High Energy Physics	185	10.2	0.948	94	1
9	Archivos Venezolanos de Farmacología y Terapéutica	152	0.4	0.187	17	4
10	Sustainability (Switzerland)	124	3.2	0.581	80	1
11	Zootaxa	110	1.7	0.578	53	2
12	Revista Cubana de Investigaciones Biomédicas	106	0.5	0.232	38	3
13	Revista Electronica de Veterinaria	102	0.1	0.105	6	4
14	American Journal of Tropical Medicine and Hygiene	96	4	1.182	67	2
15	IEEE Latin America Transactions	90	2.1	0.334	61	2
16	IEEE Access	86	3.9	0.775	84	1
17	European Physical Journal C	83	8.2	1.763	94	1
18	Ornitología Neotropical	80	0.7	0.181	20	4
19	Sensors (Switzerland)	78	5	0.653	87	1
20	Scientific Reports	75	7.2	1.341	93	1
21	Revista Bionatura	75	0.2	0.109	8	4
22	Journal of Volcanology and Geothermal Research	74	5.1	1.409	80	1
23	Revista Venezolana de Gerencia	73	0.4	0.165	24	4
24	Revista de Ciencias Sociales	71	0.6	0.219	43	3
25	Phytotaxa	71	1.8	0.446	52	2

¹ SJR: Scimago Journal Rank; ² P: Percentile; ³ Q: Quartile.

Table S2. Most representative conference articles of the universities scientific production.

No.	Conference Paper	Total documents	CiteScore 2019	SJR ¹	P ²	Q ³
1	Advances in Intelligent Systems and Computing	693	0.9	0.184	27	3
2	Iberian Conference on Information Systems and Technologies (CISTI)	363	-	0.18	-	-
3	Communications in Computer and Information Science	360	0.7	0.188	31	3
4	Lecture Notes in Computer Science (LNCS)	346	1.9	0.427	57	2
5	Latin American and Caribbean Consortium of Engineering Institutions (LACCEI)	217	-	-	-	-
6	Association for Computing Machinery - ACM's International Conference Proceeding Series (ICPS)	163	0.8	0.2	19	4
7	IEEE Ecuador Technical Chapters Meeting (ETCM 2017)	101	-	-	-	-
8	IEEE Andescon Technology and Innovation for Andean Industry (ANDESCON 2020)	92	-	-	-	-
9	Smart Innovation, Systems and Technologies (SIST)	91	0.9	0.18	28	3
10	Central Europe - CEUR Workshop Proceedings	87	0.6	0.177	16	4
11	IEEE Ecuador Technical Chapters Meeting (ETCM 2018)	81	-	-	-	-

12	Society of Photo-Optical Instrumentation Engineers (SPIE) - The International Society for Optical Engineering	69	1	0.215	27	3
13	IEEE Ecuador Technical Chapters Meeting (ETCM 2016)	53	-	0.17	-	-
14	Eighth International Conference on eDemocracy & eGovernment (ICEDEG 2018)	52	-	-	-	-
15	International Conference on Information Systems and Computer Science (INCISCOS 2017)	50	-	-	-	-
16	IEEE Ecuador Technical Chapters Meeting (ETCM 2019)	50	-	-	-	-
17	Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON 2017)	46	-	-	-	-
18	International Conference on Information Systems and Computer Science (INCISCOS 2018)	45	-	-	-	-
19	International Federation for Medical and Biological Engineering (IFMBE) Proceedings	44	-	-	-	-
20	International Conference on Information Systems and Computer Science (INCISCOS 2019)	42	-	-	-	-
21	American Institute of Physics-AIP Conference Proceedings	42	0.6	0.19	15	4
22	IEEE Asia-Pacific Conference on Computer Aided System Engineering (APCASE 2015)	40	-	-	-	-
23	Eighth International Conference on eDemocracy & eGovernment (ICEDEG 2019)	40	-	-	-	-
24	IEEE PES Innovative Smart Grid Technologies Latin America (ISGT LATAM 2017)	36	-	-	-	-
25	Eighth International Conference on eDemocracy & eGovernment (ICEDEG 2017)	35	-	-	-	-

¹ SJR: Scimago Journal Rank; ² P: Percentile; ³ Q: Quartile.

Table S3. Top 5 of author in main subject areas (2011-2020).

Subject areas	Authors	Actual Affiliation	Country	Period Publications		Annual Index	
				Documents	Cites	Documents	Cites
Computer Science	Andaluz, V.H.	Universidad de las Fuerzas Armadas (ESPE)	Ecuador	118	649	11.80	64.90
	Guarda, T.	Universidad Estatal Península de Santa Elena (UPSE)	Ecuador	95	85	9.50	8.50
	Aguilar, J.	Universidad Regional Autónoma de los Andes (UNIANDES)	Venezuela	84	1091	8.40	109.10
	Luján-Mora, S.	Universitat d'Alacant	Spain	82	1131	8.20	113.10
	Robles-Bykbaev, V.	Universidad Politécnica Salesiana (UPS)	Ecuador	76	144	7.60	14.40
Agricultural and Biological Sciences	Guayasamin, J.M.	Universidad San Francisco de Quito (USFQ)	Ecuador	60	1712	6.00	171.20
	Greeney, H.F.	Yanayacu Biological Station	Ecuador	57	1321	5.70	132.10
	Torres-Carvajal, O.	Pontificia Universidad Católica del Ecuador (PUCE)	Ecuador	53	1351	5.30	135.10
	Dangles, O.	Université de Montpellier	France	47	2960	4.70	296.00
	Valencia, R.	Pontificia Universidad Católica del Ecuador (PUCE)	Ecuador	43	5753	4.30	575.30
Medicine	Del Brutto, O.H.	Universidad Espíritu Santo (UEES)	Ecuador	219	5439	21.90	543.90
	Chedraui, P.	Universidad Católica de Santiago de Guayaquil (UCSG)	Ecuador	132	3762	13.20	376.20
	Mera, R.M.	Gilead Sciences Incorporated	United States	114	3660	11.40	366.00
	Pérez-López, F.R.	Universidad de Zaragoza	Spain	90	3418	9.00	341.80
	Zambrano, M.	The Atahualpa Project	Ecuador	88	856	8.80	85.60

Engineering	Parashar, N.	Purdue University Northwest	United States	73	72426	7.30	7242.60
	Wood, D.	Northeastern University	United States	73	71682	7.30	7168.20
	Aarrestad, T.K.	European Organization for Nuclear Research	Switzerland	73	17432	7.30	1743.20
	Abbaneo, D.	European Organization for Nuclear Research	Switzerland	73	67184	7.30	6718.40
	Abbiendi, G.	Alma Mater Studiorum Università di Bologna	Italy	73	67352	7.30	6735.20
Social Sciences	Luján-Mora, S.	Universitat d'Alacant	Spain	56	1131	5.60	113.10
	Piedra, N.	Universidad Técnica Particular de Loja (UTPL)	Ecuador	35	473	3.50	47.30
	Chicaiza, J.	Universidad Técnica Particular de Loja (UTPL)	Ecuador	23	348	2.30	34.80
	Robles-Bykbaev, V.	Universidad Politécnica Salesiana (UPS)	Ecuador	23	144	2.30	14.40
	Ochoa, X.	NYU Steinhardt	United States	21	1026	2.10	102.60
Environmental Science	Dangles, O.	Université de Montpellier	France	29	2960	2.90	296.00
	Gómez-Salgado, J.	Universidad Espíritu Santo (UEES)	Ecuador	28	269	2.80	26.90
	Crespo, P.	Universidad de Cuenca (UCUENCA)	Ecuador	26	733	2.60	73.30
	Célleri, R.	Universidad de Cuenca (UCUENCA)	Ecuador	25	1468	2.50	146.80
	Toulkeridis, T.	Universidad de las Fuerzas Armadas (ESPE)	Ecuador	24	902	2.40	90.20
Biochemistry, Genetics and Molecular Biology	Chedraui, P.	Universidad Católica de Santiago de Guayaquil (UCSG)	Ecuador	65	3762	6.50	376.20
	Paz-y-Miño, C.	Universidad Tecnológica Equinoccial (UTE)	Ecuador	45	702	4.50	70.20
	Pérez-López, F.R.	Universidad de Zaragoza	Spain	42	3418	4.20	341.80
	López-Cortés, A.	Universidad Tecnológica Equinoccial (UTE)	Ecuador	35	374	3.50	37.40
	Burgos, G.	Universidad de las Américas	Ecuador	33	92	3.30	9.20
Physics and Astronomy	Lincoln, D.	Fermi National Accelerator Laboratory	United States	653	67323	65.30	6732.30
	Ruchti, R.	University of Notre Dame	United States	653	76824	65.30	7682.40
	Varelas, N.	University of Illinois at Chicago	United States	653	85480	65.30	8548.00
	Wayne, M.	University of Notre Dame	United States	653	76678	65.30	7667.80
	Askew, A.	Florida State University	United States	653	75001	65.30	7500.10
Mathematics	Andaluz, V.H.	Universidad de las Fuerzas Armadas (ESPE)	Ecuador	81	649	8.10	64.90
	Camacho, O.	Escuela Politécnica Nacional (EPN)	Ecuador	53	605	5.30	60.50

Earth and Planetary Sciences	Peluffo-Ordóñez, D.H.	Universidad Yachay Tech (YACHAYTECH)	Ecuador	41	442	4.10	44.20
	Aguilar, W.G.	Universidad de las Fuerzas Armadas (ESPE)	Ecuador	35	627	3.50	62.70
	Robles-Bykbaev, V.	Universidad Politécnica Salesiana (UPS)	Ecuador	33	144	3.30	14.40
	Toulkeridis, T.	Universidad de las Fuerzas Armadas (ESPE)	Ecuador	43	902	4.30	90.20
	Mothes, P.	Escuela Politécnica Nacional (EPN)	Ecuador	34	1505	3.40	150.50
	Ruiz, M.	Escuela Politécnica Nacional (EPN)	Ecuador	33	1615	3.30	161.50
	Hidalgo, S.	Escuela Politécnica Nacional (EPN)	Ecuador	28	558	2.80	55.80
	Alvarado, A.	Escuela Politécnica Nacional (EPN)	Ecuador	27	546	2.70	54.60