

Ricardo Cesar Aoki Hirata

List of Publications by Year in descending order

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81
papers

1,416
citations

361413

20
h-index

395702

33
g-index

84
all docs

84
docs citations

84
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Origins and processes of groundwater salinization in the urban coastal aquifers of Recife (Pernambuco, Brazil): A multi-isotope approach. <i>Science of the Total Environment</i> , 2015, 530-531, 411-429.	8.0	102
2	The aquifer pollution vulnerability concept: aid or impediment in promoting groundwater protection?. <i>Hydrogeology Journal</i> , 2013, 21, 1389-1392.	2.1	92
3	Geochemical and stable isotopic evolution of the Guarani Aquifer System in the state of São Paulo, Brazil. <i>Hydrogeology Journal</i> , 2002, 10, 643-655.	2.1	90
4	Impacts of urbanization on groundwater hydrodynamics and hydrochemistry of the Toluca Valley aquifer (Mexico). <i>Environmental Monitoring and Assessment</i> , 2014, 186, 2979-2999.	2.7	67
5	Groundwater use in developing cities: policy issues arising from current trends. <i>Hydrogeology Journal</i> , 2011, 19, 271-274.	2.1	57
6	Natural occurrence of hexavalent chromium in a sedimentary aquifer in Urânia, State of São Paulo, Brazil. <i>Anais Da Academia Brasileira De Ciencias</i> , 2009, 81, 227-242.	0.8	48
7	Groundwater resources in Brazil: a review of possible impacts caused by climate change. <i>Anais Da Academia Brasileira De Ciencias</i> , 2012, 84, 297-312.	0.8	42
8	Trends in Nitrate Concentrations and Determination of its Origin Using Stable Isotopes (^{18}O and ^{15}N) in Groundwater of the Western Central Valley, Costa Rica. <i>Ambio</i> , 2006, 35, 229-236.	5.5	40
9	Glacial recharge, salinisation and anthropogenic contamination in the coastal aquifers of Recife (Brazil). <i>Science of the Total Environment</i> , 2016, 569-570, 1114-1125.	8.0	39
10	The Guarani Aquifer System: From a Beacon of hope to a question mark in the governance of transboundary aquifers. <i>Journal of Hydrology: Regional Studies</i> , 2018, 20, 49-59.	2.4	39
11	Relation between sedimentary framework and hydrogeology in the Guarani Aquifer System in São Paulo state, Brazil. <i>Journal of South American Earth Sciences</i> , 2011, 31, 444-456.	1.4	37
12	The Use of Soil-Gas Sampling in the Study of Groundwater Pollution by Volatile Solvents (VOC): The Example of the Porto Feliz (São Paulo, Brazil) Case. <i>Water Science and Technology</i> , 1991, 24, 127-138.	2.5	34
13	Geochemistry of natural chromium occurrence in a sandstone aquifer in Bauru Basin, São Paulo State, Brazil. <i>Applied Geochemistry</i> , 2011, 26, 1353-1363.	3.0	34
14	The karst permeability scale effect of Sete Lagoas, MG, Brazil. <i>Journal of Hydrology</i> , 2016, 532, 149-162.	5.4	33
15	Groundwater contamination in coastal urban areas: Anthropogenic pressure and natural attenuation processes. Example of Recife (PE State, NE Brazil). <i>Journal of Contaminant Hydrology</i> , 2016, 192, 165-180.	3.3	27
16	Anomalous content of chromium in a Cretaceous sandstone aquifer of the Bauru Basin, state of São Paulo, Brazil. <i>Journal of South American Earth Sciences</i> , 2011, 31, 69-80.	1.4	24
17	Assessment of intrinsic aquifer vulnerability at continental scale through a critical application of the drastic framework: The case of South America. <i>Science of the Total Environment</i> , 2022, 823, 153748.	8.0	24
18	Geochemistry and geochemical modeling of unsaturated zone in a tropical region in Urânia, São Paulo state, Brazil. <i>Journal of Hydrology</i> , 2006, 329, 49-62.	5.4	22

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19	Groundwater resources in the State of São Paulo (Brazil): the application of indicators. <i>Anais Da Academia Brasileira De Ciencias</i> , 2007, 79, 141-152.	0.8	22
20	Evaluating karst geotechnical risk in the urbanized area of Sete Lagoas, Minas Gerais, Brazil. <i>Hydrogeology Journal</i> , 2015, 23, 1499-1513.	2.1	22
21	Multi-layered water resources, management, and uses under the impacts of global changes in a southern coastal metropolis: When will it be already too late? Crossed analysis in Recife, NE Brazil. <i>Science of the Total Environment</i> , 2018, 618, 645-657.	8.0	21
22	Estimating groundwater recharge using GIS-based distributed water balance model in an environmental protection area in the city of Sete Lagoas (MG), Brazil. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	20
23	Who to blame for groundwater fluoride anomaly in São Paulo, Brazil? <i>Hydrogeochemistry and isotopic evidence. Applied Geochemistry</i> , 2018, 90, 25-38.	3.0	18
24	Water quality and risk assessment of dug wells: a case study for a poor community in the city of São Paulo, Brazil. <i>Environmental Earth Sciences</i> , 2013, 68, 899-910.	2.7	16
25	Geologic conceptual model of the municipality of Sete Lagoas (MG, Brazil) and the surroundings. <i>Anais Da Academia Brasileira De Ciencias</i> , 2016, 88, 35-53.	0.8	16
26	Recharge sources and hydrochemical evolution of an urban karst aquifer, Sete Lagoas, MG, Brazil. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	16
27	Nitrate Contamination in Brazilian Urban Aquifers: A Tenacious Problem. <i>Water (Switzerland)</i> , 2020, 12, 2709.	2.7	15
28	OS AQUÍFEROS DA BACIA HIDROGRÁFICA DO ALTO TIETÃO: DISPONIBILIDADE HÍDRICA E VULNERABILIDADE À POLUIÇÃO. <i>Revista Brasileira De Geociências</i> , 2001, 31, 43-50.	0.1	15
29	Basic oxygen furnace slag as a treatment material for pathogens: Contribution of inactivation and attachment in virus attenuation. <i>Water Research</i> , 2010, 44, 1150-1157.	11.3	12
30	Dynamics of nitrate degradation along an alternative latrine improved by a sawdust permeable reactive barrier (PRB) installed in an irregular settlement in the municipality of São Paulo (Brazil). <i>Ecological Engineering</i> , 2019, 138, 310-322.	3.6	12
31	The Guarani Aquifer System “ from regional reserves to local use. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2021, 54, .	1.4	12
32	Delineating groundwater contamination risks in southern coastal metropolises through implementation of geochemical and socio-environmental data in decision-tree and geographical information system. <i>Water Research</i> , 2022, 209, 117877.	11.3	12
33	Examining nitrogen dynamics in the unsaturated zone under an inactive cesspit using chemical tracers and environmental isotopes. <i>Applied Geochemistry</i> , 2017, 78, 129-138.	3.0	11
34	Hydrochemical investigation of barium in the public water supply wells of Sao Paulo state, southern Brazil. <i>Environmental Earth Sciences</i> , 2015, 74, 6599-6612.	2.7	10
35	Groundwater isotopic data as potential proxy for Holocene paleohydroclimatic and paleoecological models in NE Brazil. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 469, 92-103.	2.3	10
36	Urban Self-Supply from Groundwater—An Analysis of Management Aspects and Policy Needs. <i>Water (Switzerland)</i> , 2022, 14, 575.	2.7	10

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37	Diplomatic Advances and Setbacks of the Guarani Aquifer System in South America. <i>Environmental Science and Policy</i> , 2020, 114, 384-393.	4.9	9
38	Determining groundwater availability and aquifer recharge using GIS in a highly urbanized watershed. <i>Journal of South American Earth Sciences</i> , 2021, 106, 103093.	1.4	9
39	Água subterrânea para abastecimento público na Região Metropolitana de São Paulo: é possível utilizá-la em larga escala?. , 2015, 63, 6-17.	0.2	9
40	Groundwater Pollution Risk and Vulnerability Map of the State of São Paulo, Brazil. <i>Water Science and Technology</i> , 1991, 24, 159-169.	2.5	8
41	Field performance of two on-site wastewater treatment systems using reactive media layers for nutrient and pathogen removal. <i>Journal of Water Process Engineering</i> , 2019, 32, 100905.	5.6	8
42	Groundwater governance: The illegality of exploitation and ways to minimize the problem. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20200623.	0.8	8
43	How much do we know about the groundwater quality and its impact on Brazilian society today?. <i>Acta Limnologica Brasiliensia</i> , 0, 31, .	0.4	8
44	Waterwells: how can we make legality more attractive?. <i>Hydrogeology Journal</i> , 2021, 29, 1365-1368.	2.1	7
45	Integrated application of geophysical loggings and fracture survey on rock exposures for identifying transmissive fractures in crystalline aquifer: case study in the city of São Paulo. <i>Brazilian Journal of Geology</i> , 2020, 50, .	0.7	7
46	Comparação de Métodos de Estimativa de Recarga de Aquíferos em Uma Planície Aluvionar na Bacia Hidrográfica do Alto Tietê (São Paulo). <i>Revista Brasileira De Recursos Hidricos</i> , 2005, 10, 15-25.	0.5	7
47	Analytical procedures for determining Pb and Sr isotopic compositions in water samples by ID-TIMS. <i>Quimica Nova</i> , 2008, 31, 1836-1842.	0.3	5
48	Groundwater Salinization in a Coastal Multilayer Aquifer: Preliminary Results on Origins and Mechanisms- Example of Recife (Brazil). <i>Procedia Earth and Planetary Science</i> , 2013, 7, 118-122.	0.6	5
49	Discrete fracture network characterization using multiple, high-resolution borehole methods in a crystalline rock aquifer in tropical Sao Paulo city, Brazil. <i>Journal of South American Earth Sciences</i> , 2021, 105, 102911.	1.4	5
50	Evolução espacial e temporal da contaminação por nitrato no aquífero urbano de Urânia (SP). <i>Revista Águas Subterrâneas</i> , 2019, 33, 258-269.	0.1	5
51	Hidrogeoquímica das Águas minerais envasadas do Brasil. <i>Revista Brasileira De Geociências</i> , 2007, 37, 515-529.	0.1	5
52	A Method for Environmental Data Management Applied to Megasites in the State of Sao Paulo, Brazil. <i>Journal of Water Resource and Protection</i> , 2017, 09, 322-338.	0.8	5
53	CONTAMINAÇÃO DA ÁGUA SUBTERRÂNEA POR NITRATO NO PARQUE ECOLOGICO DO TIETÊ - SÃO PAULO, BRASIL. <i>Revista Águas Subterrâneas</i> , 2002, 16, .	0.1	5
54	O sistema Aquífero Guarani e a crise hídrica nas regiões de campinas e São paulo (sp). <i>Revista USP</i> , 2015, , 59.	0.1	4

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55	Modelo geométrico de fraturas e análise da tectônica regional aplicados ao estudo do fluxo do aquífero cristalino, São Paulo (SP). Geologia USP - Serie Científica, 2016, 16, 71-88.	0.3	4
56	Transmissivity of Aquifer by Capture Zone Method: An Application in the Sete Lagoas Karst Aquifer, MG, Brazil. Anais Da Academia Brasileira De Ciencias, 2017, 89, 91-102.	0.8	4
57	Support method for interpretation of regional groundwater monitoring in urban areas. Brazilian Journal of Geology, 2021, 51, .	0.7	3
58	Anisotropia e confinamento hidráulico do Sistema Aquífero Guarani em Ribeirão Preto (SP, Brasil). Geologia USP - Serie Científica, 2018, 18, 75-88.	0.3	3
59	As Águas subterrâneas: longe dos olhos, longe do coração e das almas para sua proteção. ACTA Paulista De Enfermagem, 2016, 29, 3-4.	0.6	3
60	Solo e Águas subterrâneas contaminadas pela deposição de resíduos sólidos urbanos: o caso do Vazadouro de Tatuá-(SP). Revista Do Instituto Geologico, 2017, 38, .	0.2	3
61	Método de Valoração da Água Subterrânea Impactada por Atividades Contaminantes no Estado de São Paulo. Revista Águas Subterrâneas, 2019, 33, 303-313.	0.1	3
62	Hydraulic relationship between aquifer and pond under potential influence of eucalyptus and sugarcane in tropical region of São Paulo, Brazil. Environmental Earth Sciences, 2022, 81, .	2.7	3
63	Strontium Isotopic Signature of Groundwater from Adamantina Aquifer, Bauru Basin, Brazil. Procedia Earth and Planetary Science, 2013, 7, 958-961.	0.6	2
64	Ground Water: Strategic or Emergency Reserve. , 2017, , 119-136.		2
65	Atenuação da Contaminação de Nitrato em Aquíferos com Uso de Serragem como Material Reativo: Ensaios de Colunas com Solos. Revista Brasileira De Recursos Hidricos, 2012, 17, 141-148.	0.5	2
66	MODELO NUMÉRICO DE ESCOAMENTO SUBTERRÂNEO NA REGIÃO DO RIO JOSÉ DO RIO PRETO-SP. Revista Águas Subterrâneas, 2013, 27, .	0.1	2
67	Socio-environmental monitoring and co-management strategies to favor groundwater recharge and sustainable use in southern metropolises: Toward a co-managed aquifer recharge model?. Current Opinion in Environmental Science and Health, 2022, 27, 100350.	4.1	2
68	Adosoração do traçador fluorescente uranina em sedimentos quaternários da Bacia de São Paulo. Revista Brasileira De Geociências, 2005, 37, 551-558.	0.1	1
69	Avaliação de métodos para a proteção dos pontos de abastecimento público do Estado de São Paulo. Geologia USP - Serie Científica, 2012, 12, 53-70.	0.3	1
70	Os recursos hídricos subterrâneos e as novas exigências ambientais. Revista Do Instituto Geologico, 1993, 14, 39-62.	0.2	1
71	Remedial Action for an Industrial Open Dump – Proposed Activities and Prospectives. Water Science and Technology, 1991, 24, 271-281.	2.5	0
72	Exploração do Sistema Aquífero Guarani em Araraquara. Geologia USP - Serie Científica, 2012, 12, 115-127.	0.3	0

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73	Surface and groundwater relationship in an anthropically modified area. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201257.	0.8	0
74	Sondagens el�tricas verticais na cartografia da vulnerabilidade � contamina�o do Aqu�fero Adamantina, em Ur�nia, S�o Paulo. Geologia USP - Serie Cientifica, 2021, 21, .	0.3	0
75	The use of isotopic techniques in determining groundwater pollution vulnerability � A Latin American perspective. , 2005, , .		0
76	Nitrogen impacts from a septic system in an unconfined aquifer in Sao Paulo, Brazil. , 2005, , .		0
77	Mecanismos de Controle da Recarga em Aq�feros Sedimentares Livres Estudo na Bacia Hidrogr�fica do Alto Tiet�, S�o Paulo (Brasil). Revista Brasileira De Recursos Hidricos, 2006, 11, 89-99.	0.5	0
78	MODELAGEM MATEM�TICA PARA APLICA�O DE SISTEMAS DE WETLANDS NO TRATAMENTO DE AQ�FEROS LIVRES E RASOS CONTAMINADOS. Revista �guas Subterr�neas, 2006, 20, .	0.1	0
79	Groundwater governance in S�o Paulo and Mexico metropolitan areas: some comparative lessons learnt. , 2017, , 579-594.		0
80	Groundwater Governance and the Construction of Legal Indicators for Brazilian States. Ambiente & Sociedade, 0, 25, .	0.5	0
81	Hidrogeoqu�mica do Sistema Aqu�fero Cristalino no sul do estado do Esp�rito Santo � Brasil. Geologia USP - Serie Cientifica, 2021, 21, 31-47.	0.3	0