

Haroon S Ksheshgi

List of Publications by Year in descending order

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74
papers

4,182
citations

218677

26
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123424

61
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77
all docs

77
docs citations

77
times ranked

4776
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Technology Paths to Global Climate Stability: Energy for a Greenhouse Planet. <i>Science</i> , 2002, 298, 981-987.	12.6	1,195
2	Multiple timescales for neutralization of fossil fuel CO ₂ . <i>Geophysical Research Letters</i> , 1997, 24, 405-408.	4.0	240
3	Dynamics of fossil fuel CO ₂ neutralization by marine CaCO ₃ . <i>Global Biogeochemical Cycles</i> , 1998, 12, 259-276.	4.9	228
4	The Photobiological Production of Hydrogen: Potential Efficiency and Effectiveness as a Renewable Fuel. <i>Critical Reviews in Microbiology</i> , 2005, 31, 19-31.	6.1	217
5	Low-flow limit in slot coating: Theory and experiments. <i>AIChE Journal</i> , 2000, 46, 1907-1917.	3.6	187
6	POTENTIAL OF BIOMASS FUELS IN THE CONTEXT OF GLOBAL CLIMATE CHANGE: Focus on Transportation Fuels. <i>Annual Review of Environment and Resources</i> , 2000, 25, 199-244.	1.2	171
7	Sequestering atmospheric carbon dioxide by increasing ocean alkalinity. <i>Energy</i> , 1995, 20, 915-922.	8.8	154
8	Dewetting: Nucleation and growth of dry regions. <i>Chemical Engineering Science</i> , 1991, 46, 519-526.	3.8	139
9	Nitrogen attenuation of terrestrial carbon cycle response to global environmental factors. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	130
10	Hard-to-Abate Sectors: The role of industrial carbon capture and storage (CCS) in emission mitigation. <i>Applied Energy</i> , 2021, 300, 117322.	10.1	109
11	Worldwide development potential for sour gas. <i>Energy Procedia</i> , 2011, 4, 2178-2184.	1.8	100
12	Substitution of Natural Gas for Coal: Climatic Effects of Utility Sector Emissions. <i>Climatic Change</i> , 2002, 54, 107-139.	3.6	98
13	Carbon capture and storage across fuels and sectors in energy system transformation pathways. <i>International Journal of Greenhouse Gas Control</i> , 2017, 57, 34-41.	4.6	68
14	Developing a Consistent Database for Regional Geologic CO ₂ Storage Capacity Worldwide. <i>Energy Procedia</i> , 2017, 114, 4697-4709.	1.8	67
15	Sequestration of fermentation CO ₂ from ethanol production. <i>Energy</i> , 2005, 30, 1865-1871.	8.8	65
16	The cost of CO ₂ transport and storage in global integrated assessment modeling. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103367.	4.6	64
17	Carbon dioxide capture and storage: Seven years after the IPCC special report. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2012, 17, 563-567.	2.1	62
18	Distribution of radiocarbon as a test of global carbon cycle models. <i>Global Biogeochemical Cycles</i> , 1995, 9, 153-166.	4.9	59

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19	Viscous flow through a rotating square channel. <i>Physics of Fluids</i> , 1985, 28, 2968.	1.4	55
20	Disturbed film flow on a vertical plate. <i>Physics of Fluids</i> , 1987, 30, 990.	1.4	54
21	Accounting for the missing carbon-sink with the CO ₂ -fertilization effect. <i>Climatic Change</i> , 1996, 33, 31-62.	3.6	47
22	Role of the Freight Sector in Future Climate Change Mitigation Scenarios. <i>Environmental Science & Technology</i> , 2017, 51, 3526-3533.	10.0	46
23	Projecting future climate change: Implications of carbon cycle model intercomparisons. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	38
24	Cost of power or power of cost: A U.S. modeling perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 861-874.	16.4	34
25	Estimates of Biomass Yield for Perennial Bioenergy Grasses in the USA. <i>Bioenergy Research</i> , 2015, 8, 688-715.	3.9	33
26	Representing the costs of low-carbon power generation in multi-region multi-sector energy-economic models. <i>International Journal of Greenhouse Gas Control</i> , 2019, 87, 170-187.	4.6	31
27	Price, quantity, and technology strategies for climate change policy. , 2007, , 328-342.		30
28	A globally aggregated reconstruction of cycles of carbon and its isotopes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 583-600.	1.6	27
29	Profile equations for film flows at moderate Reynolds numbers. <i>AIChE Journal</i> , 1989, 35, 1719-1727.	3.6	23
30	Future atmospheric methane concentrations in the context of the stabilization of greenhouse gas concentrations. <i>Journal of Geophysical Research</i> , 1999, 104, 19183-19190.	3.3	23
31	Climate and carbon budget implications of linked future changes in CO ₂ and non-CO ₂ forcing. <i>Environmental Research Letters</i> , 2019, 14, 044007.	5.2	23
32	A globally aggregated reconstruction of cycles of carbon and its isotopes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 583.	1.6	22
33	Model-based estimation of the global carbon budget and its uncertainty from carbon dioxide and carbon isotope records. <i>Journal of Geophysical Research</i> , 1999, 104, 31127-31143.	3.3	22
34	Measurement of liquid film profiles by Moiré topography. <i>Chemical Engineering Science</i> , 1983, 38, 525-534.	3.8	21
35	The evolution of disturbances in horizontal films. <i>Chemical Engineering Science</i> , 1988, 43, 793-801.	3.8	21
36	Emissions and Atmospheric CO ₂ Stabilization: Long-Term Limits and Paths. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2005, 10, 213-220.	2.1	20

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37	A nonlinear convolution model for the evasion of CO ₂ injected into the deep ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	17
38	The Interplay Between Bioenergy Grass Production and Water Resources in the United States of America. <i>Environmental Science & Technology</i> , 2016, 50, 3010-3019.	10.0	17
39	SCENARIOS FOR THE DEPLOYMENT OF CARBON CAPTURE AND STORAGE IN THE POWER SECTOR IN A PORTFOLIO OF MITIGATION OPTIONS. <i>Climate Change Economics</i> , 2021, 12, .	5.0	17
40	Is there an imbalance in the global budget of bomb-produced radiocarbon?. <i>Journal of Geophysical Research</i> , 1997, 102, 1327-1333.	3.3	15
41	Variable penalty method for finite element analysis of incompressible flow. <i>International Journal for Numerical Methods in Fluids</i> , 1985, 5, 785-803.	1.6	12
42	Does recent global warming suggest an enhanced greenhouse effect?. <i>Climatic Change</i> , 1993, 23, 121-139.	3.6	12
43	GLOBAL MARKET AND ECONOMIC WELFARE IMPLICATIONS OF CHANGES IN AGRICULTURAL YIELDS DUE TO CLIMATE CHANGE. <i>Climate Change Economics</i> , 2020, 11, 2050005.	5.0	12
44	Estimating the accuracy of Russian paleotemperature reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1996, 121, 221-237.	2.3	11
45	Ocean carbon sink duration under stabilization of atmospheric CO ₂ : A 1,000-year timescale. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	11
46	Testing Distributed Parameter Hypotheses for the Detection of Climate Change. <i>Journal of Climate</i> , 2001, 14, 3464-3481.	3.2	10
47	Carbon capture and storage business models. <i>Energy Procedia</i> , 2009, 1, 4481-4486.	1.8	10
48	Overshoot pathways to CO ₂ stabilization in a multi-gas context. , 0, , 84-92.		9
49	Investigating Wetland and Nonwetland Soil Methane Emissions and Sinks Across the Contiguous United States Using a Land Surface Model. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006251.	4.9	9
50	Worldwide Maize and Soybean Yield Response to Environmental and Management Factors Over the 20th and 21st Centuries. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006304.	3.0	9
51	Effects of air pollution control on climate: results from an integrated global system model. , 2007, , 93-102.		8
52	The Fate of Thin Liquid Films after Coating. , 1997, , 183-205.		8
53	An accurate one-dimensional model for nonadiabatic annular reactors. <i>AIChE Journal</i> , 1991, 37, 1265-1269.	3.6	7
54	Modelling ocean carbon cycle with a nonlinear convolution model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 3-12.	1.6	7

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55	Carbon Cycle Observations: Gaps Threaten Climate Mitigation Policies. <i>Eos</i> , 2009, 90, 292-292.	0.1	7
56	Fossil energy deployment through midcentury consistent with 2Å°C climate stabilization. <i>Energy and Climate Change</i> , 2021, 2, 100034.	4.4	7
57	Analysis of the finite element variable penalty method for Stokes equations. <i>Mathematics of Computation</i> , 1985, 45, 347-347.	2.1	6
58	Evasion of CO2 injected into the ocean in the context of CO2 stabilization. <i>Energy</i> , 2004, 29, 1479-1486.	8.8	5
59	The Future Role of CCS in Electricity and Liquid Fuel Supply. <i>Energy Procedia</i> , 2017, 114, 7606-7614.	1.8	5
60	Modelling ocean carbon cycle with a nonlinear convolution model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 3.	1.6	4
61	Moving beyond concentrations: the challenge of limiting temperature change. , 2007, , 387-402.		4
62	Effect of climate variability on estimation of greenhouse parameters: Usefulness of a pre-instrumental temperature record. <i>Quaternary Science Reviews</i> , 1993, 12, 475-481.	3.0	3
63	Laminar flow in twisted ducts. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2669-2681.	1.6	3
64	Activity and Deactivation in Catalytic Cracking Studied by Measurement of Adsorption During Reaction. <i>ACS Symposium Series</i> , 1994, , 178-192.	0.5	3
65	COMPARISON OF PALEOTEMPERATURE RECONSTRUCTIONS AS EVIDENCE FOR THE PALEO-ANALOG HYPOTHESIS. <i>Climatic Change</i> , 1997, 35, 123-131.	3.6	3
66	Reduction of the atmospheric concentration of methane as a strategic response option to global climate change. , 1999, , 775-780.		3
67	Harmonizing the quantification of CCS GHG emission reductions through oil and natural gas industry project guidelines. <i>Energy Procedia</i> , 2009, 1, 4451-4458.	1.8	1
68	Modeling the evasion of CO2 injected into the deep ocean. , 1999, , 287-292.		1
69	Increasing the Pace of Technology Innovation and Application to Enable Climate Change Solutions. , 2010, , .		1
70	Preface: Climate Change and Environmental Policy. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2004, 9, 311-313.	2.1	0
71	Probabilistic estimates of climate change: methods, assumptions and examples. , 0, , 49-61.		0
72	The potential response of historical terrestrial carbon storage to changes in land use, atmospheric CO2, and climate. , 0, , 62-71.		0

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73	Policy design and decisionmaking under uncertainty. , 0, , 303-304.		0
74	Climate system science. , 0, , 1-4.		0