

Samuel Asumadu-Sarkodie

List of Publications by Year in descending order

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132
papers

13,342
citations

38660

50
h-index

24915

109
g-index

137
all docs

137
docs citations

137
times ranked

7231
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of renewable energy sources, sustainability issues and climate change mitigation. Cogent Engineering, 2016, 3, 1167990.	1.1	1,596
2	Toward a sustainable environment: Nexus between CO2 emissions, resource rent, renewable and nonrenewable energy in 16-EU countries. Science of the Total Environment, 2019, 657, 1023-1029.	3.9	964
3	Investigation of environmental Kuznets curve for ecological footprint: The role of energy and financial development. Science of the Total Environment, 2019, 650, 2483-2489.	3.9	797
4	Effect of foreign direct investments, economic development and energy consumption on greenhouse gas emissions in developing countries. Science of the Total Environment, 2019, 646, 862-871.	3.9	788
5	Dynamic impact of trade policy, economic growth, fertility rate, renewable and non-renewable energy consumption on ecological footprint in Europe. Science of the Total Environment, 2019, 685, 702-709.	3.9	560
6	Renewable energy, nuclear energy, and environmental pollution: Accounting for political institutional quality in South Africa. Science of the Total Environment, 2018, 643, 1590-1601.	3.9	445
7	A review on Environmental Kuznets Curve hypothesis using bibliometric and meta-analysis. Science of the Total Environment, 2019, 649, 128-145.	3.9	411
8	Another look at the relationship between energy consumption, carbon dioxide emissions, and economic growth in South Africa. Science of the Total Environment, 2019, 655, 759-765.	3.9	361
9	Empirical study of the Environmental Kuznets curve and Environmental Sustainability curve hypothesis for Australia, China, Ghana and USA. Journal of Cleaner Production, 2018, 201, 98-110.	4.6	322
10	Energy efficiency: The role of technological innovation and knowledge spillover. Technological Forecasting and Social Change, 2021, 167, 120659.	6.2	297
11	The invisible hand and EKC hypothesis: what are the drivers of environmental degradation and pollution in Africa?. Environmental Science and Pollution Research, 2018, 25, 21993-22022.	2.7	251
12	Mitigating degradation and emissions in China: The role of environmental sustainability, human capital and renewable energy. Science of the Total Environment, 2020, 719, 137530.	3.9	229
13	Impact of COVID-19 pandemic on waste management. Environment, Development and Sustainability, 2021, 23, 7951-7960.	2.7	200
14	Global assessment of environment, health and economic impact of the novel coronavirus (COVID-19). Environment, Development and Sustainability, 2021, 23, 5005-5015.	2.7	196
15	Investigating the Environmental Kuznets Curve hypothesis in Kenya: A multivariate analysis. Renewable and Sustainable Energy Reviews, 2020, 117, 109481.	8.2	191
16	Environmental sustainability assessment using dynamic Autoregressive-Distributed Lag simulations”Nexus between greenhouse gas emissions, biomass energy, food and economic growth. Science of the Total Environment, 2019, 668, 318-332.	3.9	186
17	Assessment of the role of renewable energy consumption and trade policy on environmental degradation using innovation accounting: Evidence from the US. Renewable Energy, 2020, 150, 266-277.	4.3	177
18	Impact of meteorological factors on COVID-19 pandemic: Evidence from top 20 countries with confirmed cases. Environmental Research, 2020, 191, 110101.	3.7	174

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19	Testing the role of oil production in the environmental Kuznets curve of oil producing countries: New insights from Method of Moments Quantile Regression. <i>Science of the Total Environment</i> , 2020, 711, 135208.	3.9	173
20	Environmental quality effects of income, energy prices and trade: The role of renewable energy consumption in G-7 countries. <i>Science of the Total Environment</i> , 2020, 721, 137813.	3.9	163
21	Carbon dioxide emissions, GDP, energy use, and population growth: a multivariate and causality analysis for Ghana, 1971–2013. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13508-13520.	2.7	136
22	Environmental performance, biocapacity, carbon & ecological footprint of nations: Drivers, trends and mitigation options. <i>Science of the Total Environment</i> , 2021, 751, 141912.	3.9	128
23	Economic, social and governance adaptation readiness for mitigation of climate change vulnerability: Evidence from 192 countries. <i>Science of the Total Environment</i> , 2019, 656, 150-164.	3.9	125
24	Electricity access, human development index, governance and income inequality in Sub-Saharan Africa. <i>Energy Reports</i> , 2020, 6, 455-466.	2.5	122
25	The relationship between carbon dioxide and agriculture in Ghana: a comparison of VECM and ARDL model. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10968-10982.	2.7	121
26	Assessment of contribution of Australia's energy production to CO2 emissions and environmental degradation using statistical dynamic approach. <i>Science of the Total Environment</i> , 2018, 639, 888-899.	3.9	118
27	Foreign direct investment and renewable energy in climate change mitigation: Does governance matter?. <i>Journal of Cleaner Production</i> , 2020, 263, 121262.	4.6	117
28	Contemporaneous interaction between energy consumption, economic growth and environmental sustainability in South Africa: What drives what?. <i>Science of the Total Environment</i> , 2019, 686, 468-475.	3.9	107
29	The relationship between carbon dioxide emissions, energy consumption, and GDP: A recent evidence from Pakistan. <i>Cogent Engineering</i> , 2016, 3, 1210491.	1.1	102
30	Trivariate modelling of the nexus between electricity consumption, urbanization and economic growth in Nigeria: fresh insights from Maki Cointegration and causality tests. <i>Heliyon</i> , 2020, 6, e03400.	1.4	100
31	Modeling natural gas consumption, capital formation, globalization, CO2 emissions and economic growth nexus in Malaysia: Fresh evidence from combined cointegration and causality analysis. <i>Energy Strategy Reviews</i> , 2020, 31, 100526.	3.3	99
32	Climate change and crop production nexus in Somalia: an empirical evidence from ARDL technique. <i>Environmental Science and Pollution Research</i> , 2021, 28, 19838-19850.	2.7	98
33	Interrelationship of microplastic pollution in sediments and oysters in a seaport environment of the eastern coast of Australia. <i>Science of the Total Environment</i> , 2019, 695, 133924.	3.9	93
34	Investigating the cases of novel coronavirus disease (COVID-19) in China using dynamic statistical techniques. <i>Heliyon</i> , 2020, 6, e03747.	1.4	92
35	Waste generation, wealth and GHG emissions from the waste sector: Is Denmark on the path towards circular economy?. <i>Science of the Total Environment</i> , 2021, 755, 142510.	3.9	92
36	Global effect of urban sprawl, industrialization, trade and economic development on carbon dioxide emissions. <i>Environmental Research Letters</i> , 2020, 15, 034049.	2.2	89

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37	Fiscal policy and CO2 emissions from heterogeneous fuel sources in Thailand: Evidence from multiple structural breaks cointegration test. <i>Science of the Total Environment</i> , 2020, 702, 134711.	3.9	88
38	Dynamic linkage between renewable and conventional energy use, environmental quality and economic growth: Evidence from Emerging Market and Developing Economies. <i>Energy Reports</i> , 2020, 6, 965-973.	2.5	82
39	Proximate determinants of particulate matter (PM2.5) emission, mortality and life expectancy in Europe, Central Asia, Australia, Canada and the US. <i>Science of the Total Environment</i> , 2019, 683, 489-497.	3.9	79
40	A multivariate analysis of carbon dioxide emissions, electricity consumption, economic growth, financial development, industrialization, and urbanization in Senegal. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 77-84.	1.8	78
41	New insight into the causal linkage between economic expansion, FDI, coal consumption, pollutant emissions and urbanization in South Africa. <i>Environmental Science and Pollution Research</i> , 2020, 27, 18013-18024.	2.7	77
42	The potential and economic viability of solar photovoltaic power in Ghana. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 709-716.	1.2	75
43	A review of Ghana's energy sector national energy statistics and policy framework. <i>Cogent Engineering</i> , 2016, 3, 1155274.	1.1	75
44	A review of Ghana's water resource management and the future prospect. <i>Cogent Engineering</i> , 2016, 3, 1164275.	1.1	71
45	The nexus between COVID-19 deaths, air pollution and economic growth in New York state: Evidence from Deep Machine Learning. <i>Journal of Environmental Management</i> , 2021, 286, 112241.	3.8	70
46	Bibliometric analysis of water-energy-food nexus: Sustainability assessment of renewable energy. <i>Current Opinion in Environmental Science and Health</i> , 2020, 13, 29-34.	2.1	69
47	Electricity access and income inequality in South Africa: Evidence from Bayesian and NARDL analyses. <i>Energy Strategy Reviews</i> , 2020, 29, 100480.	3.3	66
48	Determinants of energy consumption in Kenya: A NIPALS approach. <i>Energy</i> , 2018, 159, 696-705.	4.5	64
49	Does biomass energy drive environmental sustainability? An SDG perspective for top five biomass consuming countries. <i>Biomass and Bioenergy</i> , 2021, 149, 106076.	2.9	60
50	Energy consumption and economic growth in Italy: A wavelet analysis. <i>Energy Reports</i> , 2021, 7, 1520-1528.	2.5	60
51	How to apply the novel dynamic ARDL simulations (dynardl) and Kernel-based regularized least squares (krls). <i>MethodsX</i> , 2020, 7, 101160.	0.7	59
52	Global estimation of mortality, disability-adjusted life years and welfare cost from exposure to ambient air pollution. <i>Science of the Total Environment</i> , 2020, 742, 140636.	3.9	59
53	COVID-19 pandemic improves market signals of cryptocurrencies—evidence from Bitcoin, Bitcoin Cash, Ethereum, and Litecoin. <i>Finance Research Letters</i> , 2022, 44, 102049.	3.4	58
54	The impact of tourism arrivals, tourism receipts and renewable energy consumption on quality of life: A panel study of Southern African region. <i>Heliyon</i> , 2020, 6, e05351.	1.4	57

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55	Recent evidence of the relationship between carbon dioxide emissions, energy use, GDP, and population in Ghana: A linear regression approach. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 495-503.	1.8	53
56	Impact assessment of trade on environmental performance: accounting for the role of government integrity and economic development in 79 countries. <i>Heliyon</i> , 2020, 6, e05046.	1.4	53
57	The potential and economic viability of wind farms in Ghana. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 695-701.	1.2	52
58	The causal nexus between carbon dioxide emissions and agricultural ecosystem—an econometric approach. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1608-1618.	2.7	52
59	Effect of temperature on heavy metal(loid) deportment during pyrolysis of <i>Avicennia marina</i> biomass obtained from phytoremediation. <i>Bioresource Technology</i> , 2019, 278, 214-222.	4.8	52
60	Generation of energy and environmental-economic growth consequences: Is there any difference across transition economies?. <i>Energy Reports</i> , 2020, 6, 1418-1427.	2.5	51
61	Energy use, carbon dioxide emissions, GDP, industrialization, financial development, and population, a causal nexus in Sri Lanka: With a subsequent prediction of energy use using neural network. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 889-899.	1.8	50
62	Multivariate co-integration analysis of the Kaya factors in Ghana. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9934-9943.	2.7	49
63	Testing the transport-induced environmental Kuznets curve hypothesis: The role of air and railway transport. <i>Journal of Air Transport Management</i> , 2020, 89, 101935.	2.4	44
64	COVID-19 pandemic and economic policy uncertainty regimes affect commodity market volatility. <i>Resources Policy</i> , 2021, 74, 102303.	4.2	44
65	Feasibility of biomass heating system in Middle East Technical University, Northern Cyprus Campus. <i>Cogent Engineering</i> , 2016, 3, 1134304.	1.1	43
66	Do dependence on fossil fuels and corruption spur ecological footprint?. <i>Environmental Impact Assessment Review</i> , 2021, 90, 106641.	4.4	42
67	The prospects of decentralised solar energy home systems in rural communities: User experience, determinants, and impact of free solar power on the energy poverty cycle. <i>Energy Strategy Reviews</i> , 2019, 26, 100424.	3.3	40
68	Fuel choice and tradition: Why fuel stacking and the energy ladder are out of step?. <i>Solar Energy</i> , 2021, 214, 491-501.	2.9	40
69	Relationship between mortality and health care expenditure: Sustainable assessment of health care system. <i>PLoS ONE</i> , 2021, 16, e0247413.	1.1	40
70	Modeling the Effects of Agricultural Innovation and Biocapacity on Carbon Dioxide Emissions in an Agrarian-Based Economy: Evidence From the Dynamic ARDL Simulations. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	36
71	The relationship between carbon dioxide, crop and food production index in Ghana: By estimating the long-run elasticities and variance decomposition. <i>Environmental Engineering Research</i> , 2017, 22, 193-202.	1.5	36
72	Carbon dioxide emission, electricity consumption, industrialization, and economic growth nexus: The Beninese case. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 1089-1096.	1.8	35

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73	Carbon dioxide emissions, GDP per capita, industrialization and population: An evidence from Rwanda. <i>Environmental Engineering Research</i> , 2017, 22, 116-124.	1.5	35
74	Towards mitigating ecological degradation in G-7 countries: accounting for economic effect dynamics, renewable energy consumption, and innovation. <i>Heliyon</i> , 2021, 7, e08592.	1.4	35
75	Panel heterogeneous distribution analysis of trade and modernized agriculture on CO ₂ emissions: The role of renewable and fossil fuel energy consumption. <i>Natural Resources Forum</i> , 2019, 43, 135-153.	1.8	34
76	Electricity production potential and social benefits from rice husk, a case study in Pakistan. <i>Cogent Engineering</i> , 2016, 3, 1177156.	1.1	33
77	Mitigating human-induced emissions in Argentina: role of renewables, income, globalization, and financial development. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67764-67778.	2.7	32
78	The relationship between financial development and income inequality in Turkey. <i>Journal of Economic Structures</i> , 2020, 9, .	0.6	31
79	The causal effect of carbon dioxide emissions, electricity consumption, economic growth, and industrialization in Sierra Leone. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 32-39.	1.8	30
80	Analyzing asymmetric effects of cryptocurrency demand on environmental sustainability. <i>Environmental Science and Pollution Research</i> , 2022, 29, 31723-31733.	2.7	30
81	Causal effect of environmental factors, economic indicators and domestic material consumption using frequency domain causality test. <i>Science of the Total Environment</i> , 2020, 736, 139602.	3.9	29
82	Is there a causal effect between agricultural production and carbon dioxide emissions in Ghana?. <i>Environmental Engineering Research</i> , 2017, 22, 40-54.	1.5	29
83	The impact of energy, agriculture, macroeconomic and human-induced indicators on environmental pollution: evidence from Ghana. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6622-6633.	2.7	28
84	Global effect of city-to-city air pollution, health conditions, climatic & socio-economic factors on COVID-19 pandemic. <i>Science of the Total Environment</i> , 2021, 778, 146394.	3.9	28
85	Forecasting Nigeria's energy use by 2030, an econometric approach. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2016, 11, 990-997.	1.8	25
86	Conflicts and ecological footprint in MENA countries: implications for sustainable terrestrial ecosystem. <i>Environmental Science and Pollution Research</i> , 2021, 28, 59988-59999.	2.7	25
87	A review of Ghana's solar energy potential. <i>AIMS Energy</i> , 2016, 4, 675-696.	1.1	25
88	Estimating Ghana's electricity consumption by 2030: An ARIMA forecast. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 936-944.	1.8	24
89	Achieving a cleaner environment via the environmental Kuznets curve hypothesis: determinants of electricity access and pollution in India. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1883-1889.	2.1	24
90	Energy's Climate-Economy-Population Nexus: An Empirical Analysis in Kenya, Senegal, and Eswatini. <i>Sustainability</i> , 2020, 12, 6202.	1.6	24

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91	Winners and losers of energy sustainabilityâ€™ Global assessment of the Sustainable Development Goals. <i>Science of the Total Environment</i> , 2022, 831, 154945.	3.9	24
92	Renewables and institutional quality mitigate environmental degradation in Somalia. <i>Renewable Energy</i> , 2022, 194, 1184-1191.	4.3	24
93	Heterogeneous effects of temperature and emissions on economic productivity across climate regimes. <i>Science of the Total Environment</i> , 2021, 775, 145893.	3.9	22
94	The casual nexus between child mortality rate, fertility rate, GDP, household final consumption expenditure, and food production index. <i>Cogent Economics and Finance</i> , 2016, 4, 1191985.	0.8	21
95	The relationship between carbon dioxide emissions, electricity production and consumption in Ghana. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 547-558.	1.8	21
96	The nCOVID-19 and financial stress in the USA: health is wealth. <i>Environment, Development and Sustainability</i> , 2021, 23, 9367-9378.	2.7	21
97	Escalation effect of fossil-based CO2 emissions improves green energy innovation. <i>Science of the Total Environment</i> , 2021, 785, 147257.	3.9	20
98	Comprehensive disaster resilience index: Pathway towards risk-informed sustainable development. <i>Journal of Cleaner Production</i> , 2022, 366, 132937.	4.6	20
99	Examining the external-factors-led growth hypothesis for the South African economy. <i>Heliyon</i> , 2020, 6, e04009.	1.4	19
100	Ambient air pollution and meteorological factors escalate electricity consumption. <i>Science of the Total Environment</i> , 2021, 795, 148841.	3.9	18
101	Counterfactual shock in energy commodities affects stock market dynamics: Evidence from the United States. <i>Resources Policy</i> , 2021, 72, 102083.	4.2	17
102	Energy Conversion Efficiency of Pyrolysis of Chicken Litter and Rice Husk Biomass. <i>Energy & Fuels</i> , 2019, 33, 6509-6514.	2.5	16
103	Are fluctuations in coal, oil and natural gas consumption permanent or transitory? Evidence from OECD countries. <i>Heliyon</i> , 2020, 6, e03391.	1.4	16
104	Energy Diversification and Economic Development in Emergent Countries: Evidence From Fourier Function-Driven Bootstrap Panel Causality Test. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	16
105	Situational Analysis of Flood and Drought in Rwanda. <i>International Journal of Scientific and Engineering Research</i> , 2015, 6, 960-970.	0.1	16
106	The causal nexus between energy use, carbon dioxide emissions, and macroeconomic variables in Ghana. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2017, 12, 533-546.	1.8	15
107	Does energy consumption follow asymmetric behavior? An assessment of Ghana's energy sector dynamics. <i>Science of the Total Environment</i> , 2019, 651, 2886-2898.	3.9	15
108	A hybrid solar photovoltaic-wind turbine-Rankine cycle for electricity generation in Turkish Republic of Northern Cyprus. <i>Cogent Engineering</i> , 2016, 3, 1180740.	1.1	14

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109	Econometrics of Anthropogenic Emissions, Green Energy-Based Innovations, and Energy Intensity across OECD Countries. <i>Sustainability</i> , 2021, 13, 4118.	1.6	14
110	Failure to control economic sectoral inefficiencies through policy stringency disrupts environmental performance. <i>Science of the Total Environment</i> , 2021, 772, 145603.	3.9	14
111	Novel derivatives of regioisomerically pure 1,7-disubstituted perylene diimide dyes bearing phenoxy and pyrrolidinyl substituents: Synthesis, photophysical, thermal, and structural properties. <i>Journal of Luminescence</i> , 2017, 192, 414-423.	1.5	13
112	Predicting the influence of climate on grassland area burned in Xilingol, China with dynamic simulations of autoregressive distributed lag models. <i>PLoS ONE</i> , 2020, 15, e0229894.	1.1	13
113	How <sc>COVID</sc>â€19 pandemic may hamper sustainable economic development. <i>Journal of Public Affairs</i> , 2021, 21, e2675.	1.7	13
114	Sustaining Economic Growth in Sub-Saharan Africa: Do FDI Inflows and External Debt Count?. <i>Journal of Risk and Financial Management</i> , 2021, 14, 146.	1.1	13
115	Impact of Urbanization and Expansion of Forest Investment to Mitigate CO2 Emissions in China. <i>Weather, Climate, and Society</i> , 2022, 14, 681-696.	0.5	13
116	Dataset on bitcoin carbon footprint and energy consumption. <i>Data in Brief</i> , 2022, 42, 108252.	0.5	12
117	How to apply dynamic panel bootstrap-corrected fixed-effects (xtbcfe) and heterogeneous dynamics (panelhetero). <i>MethodsX</i> , 2020, 7, 101045.	0.7	11
118	Rethinking electricity consumption and economic growth nexus in Turkey: environmental pros and cons. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39222-39240.	2.7	11
119	Asymmetric impact of energy utilization and economic development on environmental degradation in Somalia. <i>Environmental Science and Pollution Research</i> , 2022, 29, 23361-23373.	2.7	11
120	Extreme climatic effects hamper livestock production in Somalia. <i>Environmental Science and Pollution Research</i> , 2022, 29, 40755-40767.	2.7	11
121	Global adaptation readiness and income mitigate sectoral climate change vulnerabilities. <i>Humanities and Social Sciences Communications</i> , 2022, 9, .	1.3	11
122	Soil-to-cassava transfer of naturally occurring radionuclides from communities along Ghana's oil and gas rich Tano Basin. <i>Journal of Environmental Radioactivity</i> , 2018, 182, 138-141.	0.9	8
123	Global FDI Inflow and Its Implication across Economic Income Groups. <i>Journal of Risk and Financial Management</i> , 2020, 13, 291.	1.1	8
124	Seasonal weather and climate prediction over area burned in grasslands of northeast China. <i>Scientific Reports</i> , 2020, 10, 19961.	1.6	7
125	Monitoring the Impact of COVID-19 Lockdown on the Production of Nitrogen Dioxide (NO2) Pollutants Using Satellite Imagery: A Case Study of South Asia. <i>Sustainability</i> , 2021, 13, 7184.	1.6	7
126	Investigating the Cases of Novel Coronavirus Disease (COVID-19) in China Using Dynamic Statistical Techniques. <i>SSRN Electronic Journal</i> , 0, , .	0.4	5

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127	Global land-use intensity and anthropogenic emissions exhibit symbiotic and explosive behavior. IScience, 2022, 25, 104741.	1.9	5
128	Evaluating the Success of Renewable Energy and Energy Efficiency Policies in Ghana: Matching the Policy Objectives against Policy Instruments and Outcomes. , 0, , .		2
129	Editorial: Technology Advances in the Utilization of Fossil Natural Gas as a Strategy in Transition to a Sustainable Energy System. Frontiers in Energy Research, 2021, 9, .	1.2	1
130	The Impact Assessment of Energy, Agriculture, and Socioeconomic Indicators on Carbon Dioxide Emissions in Ghana. Handbook of Environment and Waste Management, 2020, , 137-201.	0.3	0
131	Effective Containment Explains the Velocity of COVID-19 Spread. SSRN Electronic Journal, 0, , .	0.4	0
132	Energy Policy Decision in the Light of Energy Consumption Forecast by 2030 in Zimbabwe. , 0, , .		0