Samuel Asumadu-Sarkodie

List of Publications by Year
in descending order

132 papers	13,342 citations	38742 50 h-index	24982 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.	2.2	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.	8.0	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.	8.0	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.	8.0	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.	8.0	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.	8.0	445
7	A review on Environmental Kuznets Curve hypothesis using bibliometric and meta-analysis. Science of the Total Environment, 2019, 649, 128-145.	8.0	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.	8.0	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.	9.3	322
10	Energy efficiency: The role of technological innovation and knowledge spillover. Technological Forecasting and Social Change, 2021, 167, 120659.	11.6	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.	5.3	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.	8.0	229
13	Impact of COVID-19 pandemic on waste management. Environment, Development and Sustainability, 2021, 23, 7951-7960.	5.0	200
14	Global assessment of environment, health and economic impact of the novel coronavirus (COVID-19). Environment, Development and Sustainability, 2021, 23, 5005-5015.	5.0	196
15	Investigating the Environmental Kuznets Curve hypothesis in Kenya: A multivariate analysis. Renewable and Sustainable Energy Reviews, 2020, 117, 109481.	16.4	191
16	Environmental sustainability assessment using dynamic Autoregressive-Distributed Lag simulationsâ€"Nexus between greenhouse gas emissions, biomass energy, food and economic growth. Science of the Total Environment, 2019, 668, 318-332.	8.0	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.	8.9	177
18	Impact of meteorological factors on COVID-19 pandemic: Evidence from top 20 countries with confirmed cases. Environmental Research, 2020, 191, 110101.	7.5	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. Science of the Total Environment, 2020, 711, 135208.	8.0	173
20	Environmental quality effects of income, energy prices and trade: The role of renewable energy consumption in G-7 countries. Science of the Total Environment, 2020, 721, 137813.	8.0	163
21	Carbon dioxide emissions, GDP, energy use, and population growth: a multivariate and causality analysis for Ghana, 1971â€“2013. Environmental Science and Pollution Research, 2016, 23, 13508-13520.	5.3	136
22	Environmental performance, biocapacity, carbon & ecological footprint of nations: Drivers, trends and mitigation options. Science of the Total Environment, 2021, 751, 141912.	8.0	128
23	Economic, social and governance adaptation readiness for mitigation of climate change vulnerability: Evidence from 192 countries. Science of the Total Environment, 2019, 656, 150-164.	8.0	125
24	Electricity access, human development index, governance and income inequality in Sub-Saharan Africa. Energy Reports, 2020, 6, 455-466.	5.1	122
25	The relationship between carbon dioxide and agriculture in Ghana: a comparison of VECM and ARDL model. Environmental Science and Pollution Research, 2016, 23, 10968-10982.	5.3	121
26	Assessment of contribution of Australia's energy production to CO2 emissions and environmental degradation using statistical dynamic approach. Science of the Total Environment, 2018, 639, 888-899.	8.0	118
27	Foreign direct investment and renewable energy in climate change mitigation: Does governance matter?. Journal of Cleaner Production, 2020, 263, 121262.	9.3	117
28	Contemporaneous interaction between energy consumption, economic growth and environmental sustainability in South Africa: What drives what?. Science of the Total Environment, 2019, 686, 468-475.	8.0	107
29	The relationship between carbon dioxide emissions, energy consumption, and GDP: A recent evidence from Pakistan. Cogent Engineering, 2016, 3, 1210491.	2.2	102
30	Trivariate modelling of the nexus between electricity consumption, urbanization and economic growth in Nigeria: fresh insights from Maki Cointegration and causality tests. Heliyon, 2020, 6, e03400.	3.2	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. Energy Strategy Reviews, 2020, 31, 100526.	7.3	99
32	Climate change and crop production nexus in Somalia: an empirical evidence from ARDL technique. Environmental Science and Pollution Research, 2021, 28, 19838-19850.	5.3	98
33	Interrelationship of microplastic pollution in sediments and oysters in a seaport environment of the eastern coast of Australia. Science of the Total Environment, 2019, 695, 133924.	8.0	93
34	Investigating the cases of novel coronavirus disease (COVID-19) in China using dynamic statistical techniques. Heliyon, 2020, 6, e03747.	3.2	92
35	Waste generation, wealth and GHG emissions from the waste sector: Is Denmark on the path towards circular economy?. Science of the Total Environment, 2021, 755, 142510.	8.0	92
36	Global effect of urban sprawl, industrialization, trade and economic development on carbon dioxide emissions. Environmental Research Letters, 2020, 15, 034049.	5.2	89

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37	Fiscal policy and CO2 emissions from heterogeneous fuel sources in Thailand: Evidence from multiple structural breaks cointegration test. Science of the Total Environment, 2020, 702, 134711.	8.0	88
38	Dynamic linkage between renewable and conventional energy use, environmental quality and economic growth: Evidence from Emerging Market and Developing Economies. Energy Reports, 2020, 6, 965-973.	5.1	82
39	Proximate determinants of particulate matter (PM2.5) emission, mortality and life expectancy in Europe, Central Asia, Australia, Canada and the US. Science of the Total Environment, 2019, 683, 489-497.	8.0	79
40	A multivariate analysis of carbon dioxide emissions, electricity consumption, economic growth, financial development, industrialization, and urbanization in Senegal. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 77-84.	3.4	78
41	New insight into the causal linkage between economic expansion, FDI, coal consumption, pollutant emissions and urbanization in South Africa. Environmental Science and Pollution Research, 2020, 27, 18013-18024.	5.3	77
42	The potential and economic viability of solar photovoltaic power in Ghana. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 709-716.	2.3	75
43	A review of Ghanaâ€™s energy sector national energy statistics and policy framework. Cogent Engineering, 2016, 3, 1155274.	2.2	75
44	A review of Ghanaâ€™s water resource management and the future prospect. Cogent Engineering, 2016, 3, 1164275.	2.2	71
45	The nexus between COVID-19 deaths, air pollution and economic growth in New York state: Evidence from Deep Machine Learning. Journal of Environmental Management, 2021, 286, 112241.	7.8	70
46	Bibliometric analysis of waterâ€“energyâ€“food nexus: Sustainability assessment of renewable energy. Current Opinion in Environmental Science and Health, 2020, 13, 29-34.	4.1	69
47	Electricity access and income inequality in South Africa: Evidence from Bayesian and NARDL analyses. Energy Strategy Reviews, 2020, 29, 100480.	7.3	66
48	Determinants of energy consumption in Kenya: A NIPALS approach. Energy, 2018, 159, 696-705.	8.8	64
49	Does biomass energy drive environmental sustainability? An SDG perspective for top five biomass consuming countries. Biomass and Bioenergy, 2021, 149, 106076.	5.7	60
50	Energy consumption and economic growth in Italy: A wavelet analysis. Energy Reports, 2021, 7, 1520-1528.	5.1	60
51	How to apply the novel dynamic ARDL simulations (dynardl) and Kernel-based regularized least squares (krls). MethodsX, 2020, 7, 101160.	1.6	59
52	Global estimation of mortality, disability-adjusted life years and welfare cost from exposure to ambient air pollution. Science of the Total Environment, 2020, 742, 140636.	8.0	59
53	COVID-19 pandemic improves market signals of cryptocurrenciesâ€“evidence from Bitcoin, Bitcoin Cash, Ethereum, and Litecoin. Finance Research Letters, 2022, 44, 102049.	6.7	58
54	The impact of tourism arrivals, tourism receipts and renewable energy consumption on quality of life: A panel study of Southern African region. Heliyon, 2020, 6, e05351.	3.2	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. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 495-503.	3.4	53
56	Impact assessment of trade on environmental performance: accounting for the role of government integrity and economic development in 79 countries. Heliyon, 2020, 6, e05046.	3.2	53
57	The potential and economic viability of wind farms in Ghana. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 695-701.	2.3	52
58	The causal nexus between carbon dioxide emissions and agricultural ecosystemâ€"an econometric approach. Environmental Science and Pollution Research, 2017, 24, 1608-1618.	5.3	52
59	Effect of temperature on heavy metal(loid) deportment during pyrolysis of Avicennia marina biomass obtained from phytoremediation. Bioresource Technology, 2019, 278, 214-222.	9.6	52
60	Generation of energy and environmental-economic growth consequences: Is there any difference across transition economies?. Energy Reports, 2020, 6, 1418-1427.	5.1	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. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 889-899.	3.4	50
62	Multivariate co-integration analysis of the Kaya factors in Ghana. Environmental Science and Pollution Research, 2016, 23, 9934-9943.	5.3	49
63	Testing the transport-induced environmental Kuznets curve hypothesis: The role of air and railway transport. Journal of Air Transport Management, 2020, 89, 101935.	4.5	44
64	COVID-19 pandemic and economic policy uncertainty regimes affect commodity market volatility. Resources Policy, 2021, 74, 102303.	9.6	44
65	Feasibility of biomass heating system in Middle East Technical University, Northern Cyprus Campus. Cogent Engineering, 2016, 3, 1134304.	2.2	43
66	Do dependence on fossil fuels and corruption spur ecological footprint?. Environmental Impact Assessment Review, 2021, 90, 106641.	9.2	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. Energy Strategy Reviews, 2019, 26, 100424.	7.3	40
68	Fuel choice and tradition: Why fuel stacking and the energy ladder are out of step?. Solar Energy, 2021, 214, 491-501.	6.1	40
69	Relationship between mortality and health care expenditure: Sustainable assessment of health care system. PLoS ONE, 2021, 16, e0247413.	2.5	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. Frontiers in Energy Research, 2021, 8, .	2.3	36
71	The relationship between carbon dioxide, crop and food production index in Ghana: By estimating the long-run elasticities and variance decomposition. Environmental Engineering Research, 2017, 22, 193-202.	2.5	36
72	Carbon dioxide emission, electricity consumption, industrialization, and economic growth nexus: The Beninese case. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 1089-1096.	3.4	35

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73	Carbon dioxide emissions, GDP per capita, industrialization and population: An evidence from Rwanda. Environmental Engineering Research, 2017, 22, 116-124.	2.5	35
74	Towards mitigating ecological degradation in G-7 countries: accounting for economic effect dynamics, renewable energy consumption, and innovation. Heliyon, 2021, 7, e08592.	3.2	35
75	Panel heterogeneous distribution analysis of trade and modernized agriculture on CO₂ emissions: The role of renewable and fossil fuel energy consumption. Natural Resources Forum, 2019, 43, 135-153.	3.6	34
76	Electricity production potential and social benefits from rice husk, a case study in Pakistan. Cogent Engineering, 2016, 3, 1177156.	2.2	33
77	Mitigating human-induced emissions in Argentina: role of renewables, income, globalization, and financial development. Environmental Science and Pollution Research, 2021, 28, 67764-67778.	5.3	32
78	The relationship between financial development and income inequality in Turkey. Journal of Economic Structures, 2020, 9, .	1.6	31
79	The causal effect of carbon dioxide emissions, electricity consumption, economic growth, and industrialization in Sierra Leone. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 32-39.	3.4	30
80	Analyzing asymmetric effects of cryptocurrency demand on environmental sustainability. Environmental Science and Pollution Research, 2022, 29, 31723-31733.	5.3	30
81	Causal effect of environmental factors, economic indicators and domestic material consumption using frequency domain causality test. Science of the Total Environment, 2020, 736, 139602.	8.0	29
82	Is there a causal effect between agricultural production and carbon dioxide emissions in Ghana?. Environmental Engineering Research, 2017, 22, 40-54.	2.5	29
83	The impact of energy, agriculture, macroeconomic and human-induced indicators on environmental pollution: evidence from Ghana. Environmental Science and Pollution Research, 2017, 24, 6622-6633.	5.3	28
84	Global effect of city-to-city air pollution, health conditions, climatic & socio-economic factors on COVID-19 pandemic. Science of the Total Environment, 2021, 778, 146394.	8.0	28
85	Forecasting Nigeriaâ€™s energy use by 2030, an econometric approach. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 990-997.	3.4	25
86	Conflicts and ecological footprint in MENA countries: implications for sustainable terrestrial ecosystem. Environmental Science and Pollution Research, 2021, 28, 59988-59999.	5.3	25
87	A review of Ghanaâ€™s solar energy potential. AIMS Energy, 2016, 4, 675-696.	1.9	25
88	Estimating Ghanaâ€™s electricity consumption by 2030: An ARIMA forecast. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 936-944.	3.4	24
89	Achieving a cleaner environment via the environmental Kuznets curve hypothesis: determinants of electricity access and pollution in India. Clean Technologies and Environmental Policy, 2019, 21, 1883-1889.	4.1	24
90	Energyâ€“Climateâ€“Economyâ€“Population Nexus: An Empirical Analysis in Kenya, Senegal, and Eswatini. Sustainability, 2020, 12, 6202.	3.2	24

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91	Winners and losers of energy sustainabilityâ€"Global assessment of the Sustainable Development Goals. Science of the Total Environment, 2022, 831, 154945.	8.0	24
92	Renewables and institutional quality mitigate environmental degradation in Somalia. Renewable Energy, 2022, 194, 1184-1191.	8.9	24
93	Heterogeneous effects of temperature and emissions on economic productivity across climate regimes. Science of the Total Environment, 2021, 775, 145893.	8.0	22
94	The casual nexus between child mortality rate, fertility rate, GDP, household final consumption expenditure, and food production index. Cogent Economics and Finance, 2016, 4, 1191985.	2.1	21
95	The relationship between carbon dioxide emissions, electricity production and consumption in Ghana. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 547-558.	3.4	21
96	The nCOVID-19 and financial stress in the USA: health is wealth. Environment, Development and Sustainability, 2021, 23, 9367-9378.	5.0	21
97	Escalation effect of fossil-based CO2 emissions improves green energy innovation. Science of the Total Environment, 2021, 785, 147257.	8.0	20
98	Comprehensive disaster resilience index: Pathway towards risk-informed sustainable development. Journal of Cleaner Production, 2022, 366, 132937.	9.3	20
99	Examining the external-factors-led growth hypothesis for the South African economy. Heliyon, 2020, 6, e04009.	3.2	19
100	Ambient air pollution and meteorological factors escalate electricity consumption. Science of the Total Environment, 2021, 795, 148841.	8.0	18
101	Counterfactual shock in energy commodities affects stock market dynamics: Evidence from the United States. Resources Policy, 2021, 72, 102083.	9.6	17
102	Energy Conversion Efficiency of Pyrolysis of Chicken Litter and Rice Husk Biomass. Energy & Fuels, 2019, 33, 6509-6514.	5.1	16
103	Are fluctuations in coal, oil and natural gas consumption permanent or transitory? Evidence from OECD countries. Heliyon, 2020, 6, e03391.	3.2	16
104	Energy Diversification and Economic Development in Emergent Countries: Evidence From Fourier Function-Driven Bootstrap Panel Causality Test. Frontiers in Energy Research, 2021, 9, .	2.3	16
105	Situational Analysis of Flood and Drought in Rwanda. International Journal of Scientific and Engineering Research, 2015, 6, 960-970.	0.1	16
106	The causal nexus between energy use, carbon dioxide emissions, and macroeconomic variables in Ghana. Energy Sources, Part B: Economics, Planning and Policy, 2017, 12, 533-546.	3.4	15
107	Does energy consumption follow asymmetric behavior? An assessment of Ghana's energy sector dynamics. Science of the Total Environment, 2019, 651, 2886-2898.	8.0	15
108	A hybrid solar photovoltaic-wind turbine-Rankine cycle for electricity generation in Turkish Republic of Northern Cyprus. Cogent Engineering, 2016, 3, 1180740.	2.2	14

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109	Econometrics of Anthropogenic Emissions, Green Energy-Based Innovations, and Energy Intensity across OECD Countries. Sustainability, 2021, 13, 4118.	3.2	14
110	Failure to control economic sectoral inefficiencies through policy stringency disrupts environmental performance. Science of the Total Environment, 2021, 772, 145603.	8.0	14
111	Novel derivatives of regioisomerically pure 1,7-disubstituted perylene diimide dyes bearing phenoxy and pyrrolidinyl substituents: Synthesis, photophysical, thermal, and structural properties. Journal of Luminescence, 2017, 192, 414-423.	3.1	13
112	Predicting the influence of climate on grassland area burned in Xilingol, China with dynamic simulations of autoregressive distributed lag models. PLoS ONE, 2020, 15, e0229894.	2.5	13
113	How <scp>COVID</scp>â€19 pandemic may hamper sustainable economic development. Journal of Public Affairs, 2021, 21, e2675.	3.1	13
114	Sustaining Economic Growth in Sub-Saharan Africa: Do FDI Inflows and External Debt Count?. Journal of Risk and Financial Management, 2021, 14, 146.	2.3	13
115	Impact of Urbanization and Expansion of Forest Investment to Mitigate CO2 Emissions in China. Weather, Climate, and Society, 2022, 14, 681-696.	1.1	13
116	Dataset on bitcoin carbon footprint and energy consumption. Data in Brief, 2022, 42, 108252.	1.0	12
117	How to apply dynamic panel bootstrap-corrected fixed-effects (xtbcfe) and heterogeneous dynamics (panelhetero). MethodsX, 2020, 7, 101045.	1.6	11
118	Rethinking electricity consumption and economic growth nexus in Turkey: environmental pros and cons. Environmental Science and Pollution Research, 2020, 27, 39222-39240.	5.3	11
119	Asymmetric impact of energy utilization and economic development on environmental degradation in Somalia. Environmental Science and Pollution Research, 2022, 29, 23361-23373.	5.3	11
120	Extreme climatic effects hamper livestock production in Somalia. Environmental Science and Pollution Research, 2022, 29, 40755-40767.	5.3	11
121	Global adaptation readiness and income mitigate sectoral climate change vulnerabilities. Humanities and Social Sciences Communications, 2022, 9, .	2.9	11
122	Soil-to-cassava transfer of naturally occurring radionuclides from communities along Ghana's oil and gas rich Tano Basin. Journal of Environmental Radioactivity, 2018, 182, 138-141.	1.7	8
123	Global FDI Inflow and Its Implication across Economic Income Groups. Journal of Risk and Financial Management, 2020, 13, 291.	2.3	8
124	Seasonal weather and climate prediction over area burned in grasslands of northeast China. Scientific Reports, 2020, 10, 19961.	3.3	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. Sustainability, 2021, 13, 7184.	3.2	7
126	Investigating the Cases of Novel Coronavirus Disease (COVID-19) in China Using Dynamic Statistical Techniques. SSRN Electronic Journal, 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.	4.1	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, .	2.3	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