

# Steve Smith

## List of Publications by Year in descending order

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145  
papers

36,177  
citations

32410

55  
h-index

10679

143  
g-index

198  
all docs

198  
docs citations

198  
times ranked

36859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate and air pollution implications of potential energy infrastructure and policy measures in India. <i>Energy and Climate Change</i> , 2022, 3, 100067.	2.2	3
2	rfasst: An R tool to estimate air pollution impacts on health and agriculture. <i>Journal of Open Source Software</i> , 2022, 7, 3820.	2.0	2
3	A new method for inferring city emissions and lifetimes of nitrogen oxides from high-resolution nitrogen dioxide observations: a model study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1333-1349.	1.9	12
4	Cleaning cars, grid and air. <i>Nature Energy</i> , 2021, 6, 19-20.	19.8	2
5	HIRM v1.0: a hybrid impulse response model for climate modeling and uncertainty analyses. <i>Geoscientific Model Development</i> , 2021, 14, 365-375.	1.3	3
6	Source sector and fuel contributions to ambient PM <sub>2.5</sub> and attributable mortality across multiple spatial scales. <i>Nature Communications</i> , 2021, 12, 3594.	5.8	199
7	Reduced Complexity Model Intercomparison Project Phase 2: Synthesizing Earth System Knowledge for Probabilistic Climate Projections. <i>Earth's Future</i> , 2021, 9, e2020EF001900.	2.4	28
8	Pollution inequality 50 years after the Clean Air Act: the need for hyperlocal data and action. <i>Environmental Research Letters</i> , 2021, 16, 071001.	2.2	4
9	Urban NO <sub>x</sub> emissions around the world declined faster than anticipated between 2005 and 2019. <i>Environmental Research Letters</i> , 2021, 16, 115004.	2.2	17
10	Evaluating long-term emission impacts of large-scale electric vehicle deployment in the US using a human-Earth systems model. <i>Applied Energy</i> , 2021, 300, 117364.	5.1	13
11	Quantifying the reductions in mortality from air-pollution by cancelling new coal power plants. <i>Energy and Climate Change</i> , 2021, 2, 100023.	2.2	5
12	Deep mitigation of CO <sub>2</sub> and non-CO <sub>2</sub> greenhouse gases toward 1.5°C and 2°C futures. <i>Nature Communications</i> , 2021, 12, 6245.	5.8	78
13	A comprehensive and synthetic dataset for global, regional, and national greenhouse gas emissions by sector 1970–2018 with an extension to 2019. <i>Earth System Science Data</i> , 2021, 13, 5213-5252.	3.7	68
14	Taking some heat off the NDCs? The limited potential of additional short-lived climate forcers™ mitigation. <i>Climatic Change</i> , 2020, 163, 1443-1461.	1.7	16
15	The role of methane in future climate strategies: mitigation potentials and climate impacts. <i>Climatic Change</i> , 2020, 163, 1409-1425.	1.7	39
16	Impact of methane and black carbon mitigation on forcing and temperature: a multi-model scenario analysis. <i>Climatic Change</i> , 2020, 163, 1427-1442.	1.7	15
17	The Energy Modeling Forum (EMF)-30 study on short-lived climate forcers: introduction and overview. <i>Climatic Change</i> , 2020, 163, 1399-1408.	1.7	4
18	Health co-benefits and mitigation costs as per the Paris Agreement under different technological pathways for energy supply. <i>Environment International</i> , 2020, 136, 105513.	4.8	46

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19	The generation of gridded emissions data for CMIP6. <i>Geoscientific Model Development</i> , 2020, 13, 461-482.	1.3	88
20	Interannual variability and trends of combustion aerosol and dust in major continental outflows revealed by MODIS retrievals and CAM5 simulations during 2003–2017. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 139-161.	1.9	38
21	Air pollution control strategies directly limiting national health damages in the US. <i>Nature Communications</i> , 2020, 11, 957.	5.8	56
22	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	3.7	1,199
23	A global anthropogenic emission inventory of atmospheric pollutants from sector- and fuel-specific sources (1970–2017): an application of the Community Emissions Data System (CEDS). <i>Earth System Science Data</i> , 2020, 12, 3413-3442.	3.7	209
24	The shared socio-economic pathway (SSP) greenhouse gas concentrations and their extensions to 2500. <i>Geoscientific Model Development</i> , 2020, 13, 3571-3605.	1.3	539
25	Reduced Complexity Model Intercomparison Project Phase 1: introduction and evaluation of global-mean temperature response. <i>Geoscientific Model Development</i> , 2020, 13, 5175-5190.	1.3	70
26	The impact of climate mitigation measures on near term climate forcers. <i>Environmental Research Letters</i> , 2019, 14, 104013.	2.2	3
27	Black Carbon Increases Frequency of Extreme ENSO Events. <i>Journal of Climate</i> , 2019, 32, 8323-8333.	1.2	11
28	Variability, timescales, and nonlinearity in climate responses to black carbon emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2405-2420.	1.9	34
29	First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect. <i>Geoscientific Model Development</i> , 2019, 12, 989-1007.	1.3	27
30	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. <i>Geoscientific Model Development</i> , 2019, 12, 1443-1475.	1.3	496
31	GCAM v5.1: representing the linkages between energy, water, land, climate, and economic systems. <i>Geoscientific Model Development</i> , 2019, 12, 677-698.	1.3	211
32	Impact of Anthropogenic Emission Injection Height Uncertainty on Global Sulfur Dioxide and Aerosol Distribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4812-4826.	1.2	13
33	Health and climate impacts of future United States land freight modelled with global-to-urban models. <i>Nature Sustainability</i> , 2019, 2, 105-112.	11.5	44
34	Evaluating climate emulation: fundamental impulse testing of simple climate models. <i>Earth System Dynamics</i> , 2019, 10, 729-739.	2.7	13
35	State-level drivers of future fine particulate matter mortality in the United States. <i>Environmental Research Letters</i> , 2019, 14, 124071.	2.2	4
36	Black Carbon Amplifies Haze Over the North China Plain by Weakening the East Asian Winter Monsoon. <i>Geophysical Research Letters</i> , 2019, 46, 452-460.	1.5	49

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37	&lt;i>gcamdata&lt;/i>: An R Package for Preparation, Synthesis, and Tracking of Input Data for the GCAM Integrated Human-Earth Systems Model. <i>Journal of Open Research Software</i> , 2019, 7, 6.	2.7	17
38	Health co-benefits from air pollution and mitigation costs of the Paris Agreement: a modelling study. <i>Lancet Planetary Health</i> , The, 2018, 2, e126-e133.	5.1	443
39	Estimating environmental co-benefits of U.S. low-carbon pathways using an integrated assessment model with state-level resolution. <i>Applied Energy</i> , 2018, 216, 482-493.	5.1	49
40	Recent intensification of winter haze in China linked to foreign emissions and meteorology. <i>Scientific Reports</i> , 2018, 8, 2107.	1.6	48
41	Sulfate Aerosol in the Arctic: Source Attribution and Radiative Forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1899-1918.	1.2	38
42	Global gridded anthropogenic emissions inventory of carbonyl sulfide. <i>Atmospheric Environment</i> , 2018, 183, 11-19.	1.9	40
43	Informing energy consumption uncertainty: an analysis of energy data revisions. <i>Environmental Research Letters</i> , 2018, 13, 124023.	2.2	10
44	A global record of annual urban dynamics (1992–2013) from nighttime lights. <i>Remote Sensing of Environment</i> , 2018, 219, 206-220.	4.6	193
45	A methodology and implementation of automated emissions harmonization for use in Integrated Assessment Models. <i>Environmental Modelling and Software</i> , 2018, 105, 187-200.	1.9	32
46	Historical (1750–2014) anthropogenic emissions of reactive gases and aerosols from the Community Emissions Data System (CEDS). <i>Geoscientific Model Development</i> , 2018, 11, 369-408.	1.3	1,058
47	Source Apportionments of Aerosols and Their Direct Radiative Forcing and Long-Term Trends Over Continental United States. <i>Earth's Future</i> , 2018, 6, 793-808.	2.4	42
48	The SSP4: A world of deepening inequality. <i>Global Environmental Change</i> , 2017, 42, 284-296.	3.6	265
49	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. <i>Lancet</i> , The, 2017, 389, S23.	6.3	13
50	Black carbon emissions in Russia: A critical review. <i>Atmospheric Environment</i> , 2017, 163, 9-21.	1.9	37
51	Gridded anthropogenic emissions inventory and atmospheric transport of carbonyl sulfide in the U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2169-2178.	1.2	14
52	Role of the Freight Sector in Future Climate Change Mitigation Scenarios. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3526-3533.	4.6	46
53	Large historical growth in global terrestrial gross primary production. <i>Nature</i> , 2017, 544, 84-87.	13.7	219
54	Projecting state-level air pollutant emissions using an integrated assessment model: GCAM-USA. <i>Applied Energy</i> , 2017, 208, 511-521.	5.1	36

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55	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017, 42, 346-358.	3.6	277
56	Towards a comprehensive climate impacts assessment of solar geoengineering. <i>Earth's Future</i> , 2017, 5, 93-106.	2.4	45
57	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. <i>Global Environmental Change</i> , 2017, 42, 153-168.	3.6	2,966
58	Co-benefits of global, domestic, and sectoral greenhouse gas mitigation for US air quality and human health in 2050. <i>Environmental Research Letters</i> , 2017, 12, 114033.	2.2	43
59	Source attribution of black carbon and its direct radiative forcing in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4319-4336.	1.9	76
60	Global source attribution of sulfate concentration and direct and indirect radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8903-8922.	1.9	58
61	MACv2-SP: a parameterization of anthropogenic aerosol optical properties and an associated Twomey effect for use in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 433-452.	1.3	130
62	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 585-607.	1.3	202
63	Future aerosol emissions: a multi-model comparison. <i>Climatic Change</i> , 2016, 138, 13-24.	1.7	6
64	Future Arctic temperature change resulting from a range of aerosol emissions scenarios. <i>Earth's Future</i> , 2016, 4, 270-281.	2.4	12
65	Co-benefits of global and regional greenhouse gas mitigation for US air quality in 2050. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9533-9548.	1.9	25
66	Atmospheric carbonyl sulfide sources from anthropogenic activity: Implications for carbon cycle constraints. <i>Geophysical Research Letters</i> , 2015, 42, 3004-3010.	1.5	83
67	120 Years of U.S. Residential Housing Stock and Floor Space. <i>PLoS ONE</i> , 2015, 10, e0134135.	1.1	47
68	A global map of urban extent from nightlights. <i>Environmental Research Letters</i> , 2015, 10, 054011.	2.2	228
69	A comprehensive view of global potential for hydro-generated electricity. <i>Energy and Environmental Science</i> , 2015, 8, 2622-2633.	15.6	129
70	Long history of IAM comparisons. <i>Nature Climate Change</i> , 2015, 5, 391-391.	8.1	13
71	Near-term acceleration in the rate of temperature change. <i>Nature Climate Change</i> , 2015, 5, 333-336.	8.1	151
72	Emission Projections for Long-Haul Freight Trucks and Rail in the United States through 2050. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11569-11576.	4.6	26

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73	A cluster-based method to map urban area from DMSP/OLS nightlights. <i>Remote Sensing of Environment</i> , 2014, 147, 173-185.	4.6	303
74	Non-Kyoto radiative forcing in long-run greenhouse gas emissions and climate change scenarios. <i>Climatic Change</i> , 2014, 123, 511-525.	1.7	16
75	Questions of bias in climate models. <i>Nature Climate Change</i> , 2014, 4, 741-742.	8.1	4
76	Two hundred fifty years of aerosols and climate: the end of the age of aerosols. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 537-549.	1.9	67
77	Influence of climate change mitigation technology on global demands of water for electricity generation. <i>International Journal of Greenhouse Gas Control</i> , 2013, 13, 112-123.	2.3	75
78	The long-term policy context for solar radiation management. <i>Climatic Change</i> , 2013, 121, 487-497.	1.7	22
79	Model evaluation and hindcasting: An experiment with an integrated assessment model. <i>Energy</i> , 2013, 61, 479-490.	4.5	24
80	A simple model of global aerosol indirect effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6688-6707.	1.2	53
81	Sensitivity of multi-gas climate policy to emission metrics. <i>Climatic Change</i> , 2013, 117, 663-675.	1.7	24
82	Co-benefits of mitigating global greenhouse gas emissions for future air quality and human health. <i>Nature Climate Change</i> , 2013, 3, 885-889.	8.1	505
83	The last decade of global anthropogenic sulfur dioxide: 2000â€“2011 emissions. <i>Environmental Research Letters</i> , 2013, 8, 014003.	2.2	461
84	Spatial and temporal patterns of global onshore wind speed distribution. <i>Environmental Research Letters</i> , 2013, 8, 034029.	2.2	20
85	Near-term climate mitigation by short-lived forcings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14202-14206.	3.3	76
86	Carbon density and anthropogenic land-use influences on net land-use change emissions. <i>Biogeosciences</i> , 2013, 10, 6323-6337.	1.3	23
87	Evaluation of Global Onshore Wind Energy Potential and Generation Costs. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7857-7864.	4.6	81
88	New Directions: Toward a community emissions approach. <i>Atmospheric Environment</i> , 2012, 51, 333-334.	1.9	5
89	Global projections for anthropogenic reactive nitrogen emissions to the atmosphere: an assessment of scenarios in the scientific literature. <i>Current Opinion in Environmental Sustainability</i> , 2011, 3, 359-369.	3.1	63
90	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011, 109, 5-31.	1.7	5,871

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91	RCP4.5: a pathway for stabilization of radiative forcing by 2100. <i>Climatic Change</i> , 2011, 109, 77-94.	1.7	1,238
92	Harmonization of land-use scenarios for the period 1500â€“2100: 600Âyears of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Climatic Change</i> , 2011, 109, 117-161.	1.7	1,080
93	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980â€“2010 period. <i>Climatic Change</i> , 2011, 109, 163-190.	1.7	740
94	Global and regional evolution of short-lived radiatively-active gases and aerosols in the Representative Concentration Pathways. <i>Climatic Change</i> , 2011, 109, 191-212.	1.7	393
95	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011, 109, 213-241.	1.7	2,948
96	Economically consistent long-term scenarios for air pollutant emissions. <i>Climatic Change</i> , 2011, 108, 619-627.	1.7	17
97	Anthropogenic sulfur dioxide emissions: 1850â€“2005. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1101-1116.	1.9	801
98	The Value of Advanced End-Use Energy Technologies in Meeting U.S. Climate Policy Goals. <i>Energy Journal</i> , 2011, 32, 61-88.	0.9	6
99	Historical (1850â€“2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7017-7039.	1.9	2,020
100	Global and regional potential for bioenergy from agricultural and forestry residue biomass. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2010, 15, 241-262.	1.0	74
101	Modeling the potential for thermal concentrating solar power technologies. <i>Energy Policy</i> , 2010, 38, 7884-7897.	4.2	55
102	The next generation of scenarios for climate change research and assessment. <i>Nature</i> , 2010, 463, 747-756.	13.7	5,299
103	Misrepresentation of the IPCC CO2 emission scenarios. <i>Nature Geoscience</i> , 2010, 3, 376-377.	5.4	66
104	What do near-term observations tell us about long-term developments in greenhouse gas emissions?. <i>Climatic Change</i> , 2010, 103, 635-642.	1.7	20
105	Climate Policy and the Long-Term Evolution of the U.S. Buildings Sector. <i>Energy Journal</i> , 2010, 31, 145-172.	0.9	36
106	2.6: Limiting climate change to 450Âppm CO2 equivalent in the 21st century. <i>Energy Economics</i> , 2009, 31, S107-S120.	5.6	106
107	Uncertainties in climate stabilization. <i>Climatic Change</i> , 2009, 97, 85-121.	1.7	57
108	A sustainable biomass industry for the North American Great Plains. <i>Current Opinion in Environmental Sustainability</i> , 2009, 1, 121-132.	3.1	12

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109	Implications of Limiting CO <sub>2</sub> Concentrations for Land Use and Energy. <i>Science</i> , 2009, 324, 1183-1186.	6.0	778
110	Temperature increase of 21st century mitigation scenarios. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 6, 492012.	0.2	0
111	Impact of bioenergy crops in a carbon dioxide constrained world: an application of the MiniCAM energy-agriculture and land use model. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2008, 13, 675-701.	1.0	38
112	Integrated estimates of global terrestrial carbon sequestration. <i>Global Environmental Change</i> , 2008, 18, 192-203.	3.6	55
113	Implications for the USA of stabilization of radiative forcing at 3.4 W/m <sup>2</sup> . <i>Climate Policy</i> , 2008, 8, S76-S92.	2.6	3
114	Temperature increase of 21st century mitigation scenarios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15258-15262.	3.3	139
115	Sulphate trends in Europe: are we able to model the recent observed decrease. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 773-786.	0.8	21
116	The economic implications of carbon cycle uncertainty. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 586-590.	0.8	19
117	The ObjECTS Framework for Integrated Assessment: Hybrid Modeling of Transportation. <i>Energy Journal</i> , 2006, 27, 63-91.	0.9	98
118	Multi-Gas Forcing Stabilization with Minicam. <i>Energy Journal</i> , 2006, 27, 373-392.	0.9	87
119	Emissions and Atmospheric CO <sub>2</sub> Stabilization: Long-Term Limits and Paths. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2005, 10, 213-220.	1.0	20
120	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. <i>Climatic Change</i> , 2005, 69, 7-25.	1.7	26
121	Future Sulfur Dioxide Emissions. <i>Climatic Change</i> , 2005, 73, 267-318.	1.7	59
122	Income and Pollutant Emissions in the ObjECTS MiniCAM Model. <i>Journal of Environment and Development</i> , 2005, 14, 175-196.	1.6	12
123	Modeling greenhouse gas energy technology responses to climate change. <i>Energy</i> , 2004, 29, 1529-1536.	4.5	23
124	Stabilization of CO <sub>2</sub> in a B2 world: insights on the roles of carbon capture and disposal, hydrogen, and transportation technologies. <i>Energy Economics</i> , 2004, 26, 517-537.	5.6	88
125	Total Ozone Mapping Spectrometer (TOMS) observations of increases in Asian aerosol in winter from 1979 to 2000. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	114
126	The Evaluation of Greenhouse Gas Indices. <i>Climatic Change</i> , 2003, 58, 261-265.	1.7	17



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127	The Effect of Emissions Trading and Carbon Sequestration on the Cost of CO2 Emissions Mitigation. , 2003, , 1177-1182.		0
128	The training, careers, and work of Ph.D. physical scientists: Not simply academic. American Journal of Physics, 2002, 70, 1081-1092.	0.3	26
129	Radiative Forcing Due to Reactive Gas Emissions. Journal of Climate, 2002, 15, 2690-2696.	1.2	51
130	Global and regional anthropogenic sulfur dioxide emissions. Global and Planetary Change, 2001, 29, 99-119.	1.6	280
131	Climate Implications of Greenhouse Gas Emissions Scenarios. Technological Forecasting and Social Change, 2000, 65, 195-204.	6.2	13
132	Global Warming Potentials: 2. Accuracy. Climatic Change, 2000, 44, 459-469.	1.7	55
133	Global Warming Potentials: 1. Climatic Implications of Emissions Reductions. Climatic Change, 2000, 44, 445-457.	1.7	101
134	CLIMATE: A New Route Toward Limiting Climate Change?. Science, 2000, 290, 1109-1110.	6.0	13
135	Status of the multiply-charged ion research facility at JPL. Physica Scripta, 1997, T73, 382-383.	1.2	3
136	Electron Excitation Cross Sections for the Si Transitions $3s^2 3p^3 4s^0$ , $3s^2 3p^3 2d^0, 2p^0$ , and $3s^3 p^4 4p^0$ . Astrophysical Journal, 1997, 484, 979-984.	1.6	15
137	Mass-loaded Winds. Astrophysical Journal, 1996, 473, 773-780.	1.6	9
138	Excitation of positive ions by low-energy electrons: Relevance to the Io torus. Journal of Geophysical Research, 1993, 98, 5499-5504.	3.3	4
139	Excitation cross sections for the $2s^1 n^2 P$ resonance transitions in $Mg^+(n=3)$ and $Zn^+(n=4)$ using electron-energy-loss and merged-beams methods. Physical Review A, 1993, 48, 292-309.	1.0	35
140	Nuclear winds and the narrow-line emission from active galaxies. Astrophysical Journal, 1993, 411, 570.	1.6	13
141	Nuclear winds in active elliptical galaxies. II - Observational signatures. Astrophysical Journal, 1993, 412, 82.	1.6	3
142	Nuclear winds in active elliptical galaxies. I - Interaction. Astrophysical Journal, 1993, 411, 581.	1.6	2
143	Absolute, cascade-free cross sections for the $2s^1 2p$ transition in $Zn^+$ using electron-energy-loss and merged-beams methods. Physical Review Letters, 1991, 67, 30-33.	2.9	28
144	Total-cross-section measurements for positron and electron scattering by $O_2$ , $CH_4$ , and $SF_6$ . Physical Review A, 1988, 38, 1207-1216.	1.0	133

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145	Total-Scattering Measurements and Comparisons for Collisions of Electrons and Positrons with N <sub>2</sub> O. Physical Review Letters, 1984, 52, 1417-1420.	2.9	63