

Ina Tegen

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145
papers

16,829
citations

57
h-index

129
g-index

184
ext. papers

18,507
ext. citations

6.1
avg, IF

6.29
L-index

#	Paper	IF	Citations
145	Global iron connections between desert dust, ocean biogeochemistry, and climate. <i>Science</i> , 2005 , 308, 67-71	33.3	1996
144	Sources and distributions of dust aerosols simulated with the GOCART model. <i>Journal of Geophysical Research</i> , 2001 , 106, 20255-20273		1355
143	The aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1125-1156	6.8	839
142	The influence on climate forcing of mineral aerosols from disturbed soils. <i>Nature</i> , 1996 , 380, 419-422	50.4	799
141	Atmospheric global dust cycle and iron inputs to the ocean. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a		777
140	Modeling of mineral dust in the atmosphere: Sources, transport, and optical thickness. <i>Journal of Geophysical Research</i> , 1994 , 99, 22897		626
139	North African dust emissions and transport. <i>Earth-Science Reviews</i> , 2006 , 79, 73-100	10.2	462
138	Contribution to the atmospheric mineral aerosol load from land surface modification. <i>Journal of Geophysical Research</i> , 1995 , 100, 18707		452
137	Modeling of particle size distribution and its influence on the radiative properties of mineral dust aerosol. <i>Journal of Geophysical Research</i> , 1996 , 101, 19237-19244		445
136	Contribution of different aerosol species to the global aerosol extinction optical thickness: Estimates from model results. <i>Journal of Geophysical Research</i> , 1997 , 102, 23895-23915		438
135	Iron supply and demand in the upper ocean. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 281-295	5.9	407
134	Climate Response to Soil Dust Aerosols. <i>Journal of Climate</i> , 1998 , 11, 3247-3267	4.4	395
133	Impact of vegetation and preferential source areas on global dust aerosol: Results from a model study. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 14-1-AAC 14-27		382
132	Climate forcings in the industrial era. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 12753-8	11.5	276
131	Surface radiative forcing by soil dust aerosols and the hydrologic cycle. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		272
130	Climate forcings in Goddard Institute for Space Studies SI2000 simulations. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 2-1		270
129	Relative importance of climate and land use in determining present and future global soil dust emission. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	246

128	Quantifying mineral dust mass budgets: Terminology, constraints, and current estimates. <i>Eos</i> , 2004 , 85, 509-512	1.5	232
127	A new Saharan dust source activation frequency map derived from MSG-SEVIRI IR-channels. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	225
126	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. <i>Journal of Geophysical Research</i> , 2003 , 108,		218
125	Modeling the mineral dust aerosol cycle in the climate system. <i>Quaternary Science Reviews</i> , 2003 , 22, 1821-1834	3.9	209
124	Tropospheric sulfur simulation and sulfate direct radiative forcing in the Goddard Institute for Space Studies general circulation model. <i>Journal of Geophysical Research</i> , 1999 , 104, 23799-23822		209
123	Meteorological processes forcing Saharan dust emission inferred from MSG-SEVIRI observations of subdaily dust source activation and numerical models. <i>Journal of Geophysical Research</i> , 2009 , 114,		185
122	Saharan Mineral Dust Experiments SAMUM ^I and SAMUM ^{II} : what have we learned?. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 403-429	3.3	164
121	Mineral dust aerosols in the NASA Goddard Institute for Space Sciences ModelE atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2006 , 111,		159
120	Links between topography, wind, deflation, lakes and dust: The case of the Bodle Depression, Chad. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	151
119	Atmospheric transport and deposition of mineral dust to the ocean: implications for research needs. <i>Environmental Science & Technology</i> , 2012 , 46, 10390-404	10.3	148
118	Impacts of atmospheric nutrient deposition on marine productivity: Roles of nitrogen, phosphorus, and iron. <i>Global Biogeochemical Cycles</i> , 2011 , 25, n/a-n/a	5.9	148
117	Hypothesized climate forcing time series for the last 500 years. <i>Journal of Geophysical Research</i> , 2001 , 106, 14783-14803		148
116	Constraining the magnitude of the global dust cycle by minimizing the difference between a model and observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		146
115	Forcings and chaos in interannual to decadal climate change. <i>Journal of Geophysical Research</i> , 1997 , 102, 25679-25720		138
114	Radiative forcing of climate by ice-age atmospheric dust. <i>Climate Dynamics</i> , 2003 , 20, 193-202	4.2	133
113	The global influence of dust mineralogical composition on heterogeneous ice nucleation in mixed-phase clouds. <i>Environmental Research Letters</i> , 2008 , 3, 025003	6.2	132
112	Quantifying uncertainty in estimates of mineral dust flux: An intercomparison of model performance over the Bodle Depression, northern Chad. <i>Journal of Geophysical Research</i> , 2008 , 113,		128
111	Comparison of satellite based observations of Saharan dust source areas. <i>Remote Sensing of Environment</i> , 2012 , 123, 90-97	13.2	126

110	The Saharan Aerosol Long-Range Transport and Aerosol-Cloud-Interaction Experiment: Overview and Selected Highlights. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1427-1451	6.1	120
109	Seasonal and interannual variability of the mineral dust cycle under present and glacial climate conditions. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 2-1		116
108	Interactive soil dust aerosol model in the GISS GCM: 1. Sensitivity of the soil dust cycle to radiative properties of soil dust aerosols. <i>Journal of Geophysical Research</i> , 2001 , 106, 18167-18192		115
107	Saharan dust transport and deposition towards the tropical northern Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1173-1189	6.8	113
106	Controls of dust emissions by vegetation and topographic depressions: An evaluation using dust storm frequency data. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	107
105	The role of deep convection and nocturnal low-level jets for dust emission in summertime West Africa: Estimates from convection-permitting simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4385-4400	4.4	106
104	Feedback upon dust emission by dust radiative forcing through the planetary boundary layer. <i>Journal of Geophysical Research</i> , 2004 , 109,		94
103	A general circulation model study on the interannual variability of soil dust aerosol. <i>Journal of Geophysical Research</i> , 1998 , 103, 25975-25995		89
102	Trends in tropospheric aerosol loads and corresponding impact on direct radiative forcing between 1950 and 1990: A model study. <i>Journal of Geophysical Research</i> , 2000 , 105, 26971-26989		88
101	Climatology of nocturnal low-level jets over North Africa and implications for modeling mineral dust emission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6100-6121	4.4	87
100	A Comparison of Model- and Satellite-Derived Aerosol Optical Depth and Reflectivity. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 441-460	2.1	87
99	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 2010 , 67, 87-140	3.2	81
98	Regional modeling of Saharan dust events using LM-MUSCAT: Model description and case studies. <i>Journal of Geophysical Research</i> , 2007 , 112,		78
97	Dust mobilization and transport in the northern Sahara during SAMUM 2006: a meteorological overview. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 12-31	3.3	73
96	Dust as a tipping element: the Bodele Depression, Chad. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20564-71	11.5	72
95	Dust radiative feedback on Saharan boundary layer dynamics and dust mobilization. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	71
94	A case of extreme particulate matter concentrations over Central Europe caused by dust emitted over the southern Ukraine. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 997-1016	6.8	71
93	Modelling soil dust aerosol in the Bodéle depression during the BoDEX campaign. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4345-4359	6.8	70

92	On the direct and semidirect effects of Saharan dust over Europe: A modeling study. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
91	Estimation of the aerodynamic roughness length in arid and semi-arid regions over the globe with the ERS scatterometer. <i>Journal of Geophysical Research</i> , 2005 , 110,		67
90	Properties of dust aerosol particles transported to Portugal from the Sahara desert. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 297-306	3.3	62
89	The global aerosol-climate model ECHAM6.3-AM2.3 [Part 1: Aerosol evaluation. <i>Geoscientific Model Development</i> , 2019 , 12, 1643-1677	6.3	57
88	Comparing two years of Saharan dust source activation obtained by regional modelling and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2381-2390	6.8	56
87	An improvement on the dust emission scheme in the global aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1105-1117	6.8	51
86	Multidecadal solar radiation trends in the United States and Germany and direct tropospheric aerosol forcing. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 7-1		51
85	How important are atmospheric depressions and mobile cyclones for emitting mineral dust aerosol in North Africa?. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8983-9000	6.8	48
84	A comparison of seasonal and interannual variability of soil dust aerosols over the Atlantic Ocean as inferred by the TOMS AI and AVHRR AOT retrievals. <i>Journal of Geophysical Research</i> , 2001 , 106, 18287-18303		47
83	Radiative Forcing of a Tropical Direct Circulation by Soil Dust Aerosols. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 2403-2433	2.1	47
82	Anthropogenically induced changes in twentieth century mineral dust burden and the associated impact on radiative forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,526-13,546	4.4	46
81	Regional Saharan dust modelling during the SAMUM 2006 campaign. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 307-324	3.3	44
80	Understanding Causes and Effects of Rapid Warming in the Arctic. <i>Eos</i> , 2017 ,	1.5	44
79	On the visibility of airborne volcanic ash and mineral dust from the pilot's perspective in flight. <i>Physics and Chemistry of the Earth</i> , 2012 , 45-46, 87-102	3	43
78	Regional modelling of Saharan dust and biomass-burning smoke. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 781-799	3.3	42
77	EARLINET observations of the 14-22-May long-range dust transport event during SAMUM 2006: validation of results from dust transport modelling. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 325-339	3.3	41
76	The global distribution of mineral dust. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009 , 7, 012001	0.3	40
75	Impact of Dust Radiative Forcing upon Climate 2014 , 327-357		40

74	Characterization of organic aerosol across the global remote troposphere: a comparison of ATom measurements and global chemistry models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4607-4635	6.8	38
73	Mobilization of cesium in organic rich soils: Correlation with production of dissolved organic carbon. <i>Water, Air, and Soil Pollution</i> , 1996 , 88, 133-144	2.6	38
72	Simulations of convectively-driven density currents in the Atlas region using a regional model: Impacts on dust emission and sensitivity to horizontal resolution and convection schemes. <i>Journal of Geophysical Research</i> , 2009 , 114,		34
71	Harmattan, Saharan heat low, and West African monsoon circulation: modulations on the Saharan dust outflow towards the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10223-10243	6.8	32
70	Modeling Arabian dust mobilization during the Asian summer monsoon: The effect of prescribed versus calculated SST. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	30
69	Seasonal variability of Saharan desert dust and ice nucleating particles over Europe. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 4389-4397	6.8	28
68	A model study of Saharan dust emissions and distributions during the SAMUM-1 campaign. <i>Journal of Geophysical Research</i> , 2010 , 115,		28
67	Modelling base cations in Europe—sources, transport and deposition of calcium. <i>Atmospheric Environment</i> , 1999 , 33, 2241-2256	5.3	28
66	SALSA2.0: The sectional aerosol module of the aerosol-chemistry-climate model ECHAM6.3.0-HAM2.3-MOZ1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 3833-3863	6.3	27
65	A parameterization of the heterogeneous hydrolysis of N_2O_5 for mass-based aerosol models: improvement of particulate nitrate prediction. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 673-689	6.8	25
64	Simulations of the 2010 Eyjafjallajökull volcanic ash dispersal over Europe using COSMO-MUSCAT. <i>Atmospheric Environment</i> , 2012 , 48, 195-204	5.3	25
63	The global aerosol-climate model ECHAM6.3-HAM2.3 [Part 2: Cloud evaluation, aerosol radiative forcing, and climate sensitivity. <i>Geoscientific Model Development</i> , 2019 , 12, 3609-3639	6.3	24
62	Laboratory experiments to investigate the influence of microbial activity on the migration of cesium in a forest soil. <i>Water, Air, and Soil Pollution</i> , 1991 , 57-58, 441-447	2.6	23
61	Antarctic circumpolar wave impact on marine biology: A natural laboratory for climate change study. <i>Geophysical Research Letters</i> , 2002 , 29, 45-1-45-4	4.9	22
60	Global relevance of marine organic aerosol as ice nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11423-11445	6.8	21
59	The importance of the representation of air pollution emissions for the modeled distribution and radiative effects of black carbon in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11159-11183	6.8	19
58	Parameterizing cloud condensation nuclei concentrations during HOPE. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12059-12079	6.8	19
57	Direct and semi-direct radiative effects of absorbing aerosols in Europe: Results from a regional model. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	19

56	Interannual variability in the Saharan dust source activation toward understanding the differences between 2007 and 2008. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4538-4562	4.4	18
55	Mass deposition fluxes of Saharan mineral dust to the tropical northeast Atlantic Ocean: an intercomparison of methods. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2245-2266	6.8	18
54	Regional modelling of Saharan dust and biomass-burning smoke. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 800-813	3.3	18
53	Climate Feedback on Aerosol Emission and Atmospheric Concentrations. <i>Current Climate Change Reports</i> , 2018 , 4, 1-10	9	17
52	A process-based evaluation of dust-emitting winds in the CMIP5 simulation of HadGEM2-ES. <i>Climate Dynamics</i> , 2016 , 46, 1107-1130	4.2	16
51	Record of Mineral Aerosols and Their Role in the Earth System 2007 , 1-26		16
50	Influence of the latitudinal temperature gradient on soil dust concentration and deposition in Greenland. <i>Journal of Geophysical Research</i> , 2000 , 105, 7199-7212		16
49	New developments in the representation of Saharan dust sources in the aerosol climate model ECHAM6-HAM2. <i>Geoscientific Model Development</i> , 2016 , 9, 765-777	6.3	16
48	Atmospheric Dynamics and Numerical Simulations of Six Frontal Dust Storms in the Middle East Region. <i>Atmosphere</i> , 2021 , 12, 125	2.7	16
47	Effect of measured surface albedo on modeled Saharan dust solar radiative forcing. <i>Journal of Geophysical Research</i> , 2010 , 115,		14
46	Ice phase in altocumulus clouds over Leipzig: remote sensing observations and detailed modeling. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10453-10470	6.8	13
45	A regional model of European aerosol transport: Evaluation with sun photometer, lidar and air quality data. <i>Atmospheric Environment</i> , 2012 , 47, 519-532	5.3	11
44	Surface wind accuracy for modeling mineral dust emissions: Comparing two regional models in a Bodensee case study. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	11
43	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9641-9663	6.8	11
42	Large-Scale Modeling of Absorbing Aerosols and Their Semi-Direct Effects. <i>Atmosphere</i> , 2018 , 9, 380	2.7	11
41	Spatial and temporal correlation length as a measure for the stationarity of atmospheric dust aerosol distribution. <i>Atmospheric Environment</i> , 2015 , 122, 10-21	5.3	10
40	The impact of mineral dust on cloud formation during the Saharan dust event in April 2014 over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17545-17572	6.8	10
39	Do new sea spray aerosol source functions improve the results of a regional aerosol model?. <i>Atmospheric Environment</i> , 2019 , 198, 265-278	5.3	9

38	The day-to-day co-variability between mineral dust and cloud glaciation: a proxy for heterogeneous freezing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2177-2199	6.8	9
37	Coupling aerosols to (cirrus) clouds in the global EMAC-MADE3 aerosol-climate model. <i>Geoscientific Model Development</i> , 2020 , 13, 1635-1661	6.3	9
36	Climate Modeling in the Global Warming Debate. <i>International Geophysics</i> , 2000 , 70, 127-164		9
35	Reply to comment by N. M. Mahowald et al. on Relative importance of climate and land use in determining present and future global soil dust emission. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	8
34	Detection and attribution of aerosol-cloud interactions in large-domain large-eddy simulations with the ICOSahedral Non-hydrostatic model. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5657-5678	6.8	7
33	Implementation of aerosol-cloud interactions in the regional atmosphere-aerosol model COSMO-MUSCAT(5.0) and evaluation using satellite data. <i>Geoscientific Model Development</i> , 2017 , 10, 2231-2246	6.3	7
32	How well do aerosol retrievals from satellites and representation in global circulation models match ground-based AERONET aerosol statistics?. <i>Advances in Global Change Research</i> , 2001 , 103-158	1.2	7
31	Natural sea-salt emissions moderate the climate forcing of anthropogenic nitrate. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 771-786	6.8	6
30	Estimation of cloud condensation nuclei number concentrations and comparison to in-situ and lidar observations during the HOPE experiments. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8787-8806	6.8	6
29	An episode of extremely high PM concentrations over Central Europe caused by dust emitted over the southern Ukraine		6
28	Hemispheric and Seasonal Contrast in Cloud Thermodynamic Phase From A-Train Spaceborne Instruments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034322	4.4	5
27	Modelling mineral dust emissions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009 , 7, 012006	6.3	4
26	SALSA2.0: The sectional aerosol module of the aerosol-chemistry-climate model ECHAM6.3.0-HAM2.3-MOZ1.0 2018 ,		3
25	Modelling mineral dust emissions and atmospheric dispersion with MADE3 in EMAC v2.54. <i>Geoscientific Model Development</i> , 2020 , 13, 4287-4303	6.3	3
24	How important are cyclones for emitting mineral dust aerosol in North Africa?		3
23	Modelling soil dust aerosol in the Bodensee depression during the BoDEx campaign		3
22	An improvement on the dust emission scheme in the global aerosol-climate model ECHAM5-HAM		3
21	The global aerosol-climate model ECHAM6.3-HAM2.3 [Part 2: Cloud evaluation, aerosol radiative forcing and climate sensitivity 2019 ,		2

20	Climate effect of soil dust aerosols. <i>Journal of Aerosol Science</i> , 1998 , 29, S1013-S1014	4.3	2
19	Mass deposition fluxes of Saharan mineral dust to the tropical northeast Atlantic Ocean: an intercomparison of methods		2
18	Saharan dust transport and deposition towards the Tropical Northern Atlantic		2
17	Numerical Dust Models 2014 , 201-222		2
16	The Importance of the Representation of DMS Oxidation in Global Chemistry-Climate Simulations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094068	4.9	2
15	Characterization of Organic Aerosol across the Global Remote Troposphere: A comparison of ATom measurements and global chemistry models 2019 ,		1
14	Chapter 5.5 Modeling of Saharan dust events within SAMUM: Implications for regional radiation balance and mesoscale circulation. <i>Developments in Environmental Science</i> , 2007 , 523-533		1
13	Seasonal variability of Saharan desert dust and ice nucleating particles over Europe		1
12	Model study on the dependence of primary marine aerosol emission on the sea surface temperature		1
11	New developments in the representation of Saharan dust sources in the aerosol-climate model ECHAM6-HAM2r		1
10	Ice phase in altocumulus clouds over Leipzig: remote sensing observations and detailed modelling		1
9	Constraining the Impact of Dust-Driven Droplet Freezing on Climate Using Cloud-Top-Phase Observations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092687	4.9	1
8	Global cycling and climate effects of aeolian dust controlled by biological soil crusts. <i>Nature Geoscience</i> ,	18.3	1
7	Modelling mineral dust in the Central Asian region. <i>E3S Web of Conferences</i> , 2019 , 99, 02012	0.5	0
6	Dust 2017 , 175-203		
5	Dust impacts on radiative effects of black carbon aerosol in Central Asia. <i>E3S Web of Conferences</i> , 2019 , 99, 04005	0.5	
4	GLACIAL CLIMATES Effects of Atmospheric Dust 2013 , 729-736		
3	GLACIAL CLIMATES Effects of Atmospheric Dust 2007 , 729-739		

- 2 Poster 27 Modeling of Saharan dust events within SAMUM: On the description of the Saharan dust cycle using LM-MUSCAT. *Developments in Environmental Science*, **2007**, 817-819
- 1 Reply [to Comment on Contribution of different aerosol species to the global aerosol extinction optical thickness: Estimates from model results] by Tegen et al. *Journal of Geophysical Research*, **1999**, 104, 4249-4250