

# Geoffrey C Collins

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

2,248  
citations

279798

23  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Does Europa have a subsurface ocean? Evaluation of the geological evidence. <i>Journal of Geophysical Research</i> , 1999, 104, 24015-24055.	3.3	363
2	The NASA Roadmap to Ocean Worlds. <i>Astrobiology</i> , 2019, 19, 1-27.	3.0	209
3	Galileo's First Images of Jupiter and the Galilean Satellites. <i>Science</i> , 1996, 274, 377-385.	12.6	152
4	Geologic mapping of Europa. <i>Journal of Geophysical Research</i> , 2000, 105, 22559-22578.	3.3	121
5	Grooved Terrain on Ganymede: First Results from Galileo High-Resolution Imaging. <i>Icarus</i> , 1998, 135, 276-302.	2.5	108
6	Enceladus' south polar sea. <i>Icarus</i> , 2007, 189, 72-82.	2.5	104
7	Fluvial features on Titan: Insights from morphology and modeling. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 299-321.	3.3	93
8	Impact Features on Europa: Results of the Galileo Europa Mission (GEM). <i>Icarus</i> , 2001, 151, 93-111.	2.5	92
9	Sediment transport by liquid surficial flow: Application to Titan. <i>Icarus</i> , 2006, 181, 235-242.	2.5	91
10	Modeling stresses on satellites due to nonsynchronous rotation and orbital eccentricity using gravitational potential theory. <i>Icarus</i> , 2009, 200, 188-206.	2.5	91
11	Global geological mapping of Ganymede. <i>Icarus</i> , 2010, 207, 845-867.	2.5	69
12	Hydrothermal plume dynamics on Europa: Implications for chaos formation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	66
13	Strained craters on Ganymede. <i>Journal of Structural Geology</i> , 2005, 27, 827-838.	2.3	64
14	Relative rates of fluvial bedrock incision on Titan and Earth. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	64
15	Shallow seismic activity and young thrust faults on the Moon. <i>Nature Geoscience</i> , 2019, 12, 411-417.	12.9	64
16	Influence of temperature, composition, and grain size on the tensile failure of water ice: Implications for erosion on Titan. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	63
17	Global thrust faulting on the Moon and the influence of tidal stresses. <i>Geology</i> , 2015, 43, 851-854.	4.4	56
18	Formation of Ganymede Grooved Terrain by Sequential Extensional Episodes: Implications of Galileo Observations for Regional Stratigraphy. <i>Icarus</i> , 1998, 135, 345-359.	2.5	53

#	ARTICLE	IF	CITATIONS
19	Bladed Terrain on Pluto: Possible origins and evolution. <i>Icarus</i> , 2018, 300, 129-144.	2.5	47
20	The role of extensional instability in creating Ganymede grooved terrain: Insights from Galileo High-Resolution Stereo Imaging. <i>Geophysical Research Letters</i> , 1998, 25, 233-236.	4.0	37
21	Geology and mapping of dark terrain on Ganymede and implications for grooved terrain formation. <i>Journal of Geophysical Research</i> , 2000, 105, 22519-22540.	3.3	37
22	Topographic wavelengths of Ganymede groove lanes from Fourier analysis of Galileo images. <i>Journal of Geophysical Research</i> , 1999, 104, 24057-24074.	3.3	33
23	Tectonics of the outer planet satellites. , 2009, , 264-350.		30
24	Tectonic activity on Pluto after the Charon-forming impact. <i>Icarus</i> , 2015, 246, 146-155.	2.5	25
25	Biological Contamination Prevention for Outer Solar System Moons of Astrobiological Interest: What Do We Need to Know?. <i>Astrobiology</i> , 2019, 19, 951-974.	3.0	24
26	Pit chains on Enceladus signal the recent tectonic dissection of the ancient cratered terrains. <i>Icarus</i> , 2017, 294, 209-217.	2.5	20
27	Morphological mapping of Ganymede: Investigating the role of strike-slip tectonics in the evolution of terrain types. <i>Icarus</i> , 2018, 315, 92-114.	2.5	19
28	A New Enceladus Global Control Network, Image Mosaic, and Updated Pointing Kernels From Cassini's 13 <sup>th</sup> Year Mission. <i>Earth and Space Science</i> , 2018, 5, 604-621.	2.6	13
29	Tidal stress modeling of Ganymede: Strike-slip tectonism and Coulomb failure. <i>Icarus</i> , 2019, 319, 99-120.	2.5	13
30	Investigation of the application of aerobot technology at Venus. <i>Acta Astronautica</i> , 2005, 56, 477-494.	3.2	9
31	Physical models of grooved terrain tectonics on Ganymede. <i>Geophysical Research Letters</i> , 2014, 41, 3774-3778.	4.0	5
32	Ganymede, Then and Now: How Past Eccentricity May Have Altered Tidally Driven Coulomb Failure. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005995.	3.6	5
33	Motion-Based Angiogenesis Analysis: A Simple Method to Quantify Blood Vessel Growth. <i>Zebrafish</i> , 2009, 6, 239-243.	1.1	4
34	Strike-slip faulting on Titan: Modeling tidal stresses and shear failure conditions due to pore fluid interactions. <i>Icarus</i> , 2022, 371, 114700.	2.5	3
35	Testing the cryovolcanism and plate bending hypotheses for Charon's smooth plains. <i>Icarus</i> , 2021, 356, 113717.	2.5	1
36	A motion-based angiogenesis analysis to quantify new blood vessel growth. <i>FASEB Journal</i> , 2008, 22, 746.19.	0.5	0