

# Donovan L Mathias

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9455469/publications.pdf>

Version: 2024-02-01

8  
papers

286  
citations

1163117  
8  
h-index

1588992  
8  
g-index

8  
all docs

8  
docs citations

8  
times ranked

316  
citing authors

#	ARTICLE	IF	CITATIONS
1	A probabilistic asteroid impact risk model: assessment of sub-300 m impacts. <i>Icarus</i> , 2017, 289, 106-119.	2.5	67
2	A fragment-cloud model for asteroid breakup and atmospheric energy deposition. <i>Icarus</i> , 2017, 295, 149-169.	2.5	56
3	Asteroid fragmentation approaches for modeling atmospheric energy deposition. <i>Icarus</i> , 2017, 284, 157-166.	2.5	53
4	Numerical investigation of the effect of obstacle shape on deflagration to detonation transition in a hydrogen-air mixture. <i>Combustion and Flame</i> , 2019, 209, 278-290.	5.2	38
5	Atmospheric energy deposition modeling and inference for varied meteoroid structures. <i>Icarus</i> , 2018, 315, 79-91.	2.5	24
6	Hydrocode simulations of asteroid airbursts and constraints for Tunguska. <i>Icarus</i> , 2019, 327, 36-47.	2.5	22
7	Effect of yield curves and porous crush on hydrocode simulations of asteroid airburst. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 599-613.	3.6	17
8	Inference of meteoroid characteristics using a genetic algorithm. <i>Icarus</i> , 2019, 329, 270-281.	2.5	9