

# David S Kammer

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

541  
citations

623188

14  
h-index

642321

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

284  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Linear Elastic Fracture Mechanics Predicts the Propagation Distance of Frictional Slip. <i>Tribology Letters</i> , 2015, 57, 1.  | 1.2 | 67        |
| 2  | On the Propagation of Slip Fronts at Frictional Interfaces. <i>Tribology Letters</i> , 2012, 48, 27-32.  | 1.2 | 50        |
| 3  | Brittle Fracture Theory Predicts the Equation of Motion of Frictional Rupture Fronts. <i>Physical Review Letters</i> , 2017, 118, 125501.  | 2.9 | 47        |
| 4  | Properties of the shear stress peak radiated ahead of rapidly accelerating rupture fronts that mediate frictional slip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 542-547. | 3.3 | 45        |
| 5  | Survival of Heterogeneous Stress Distributions Created by Precursory Slip at Frictional Interfaces. <i>Physical Review Letters</i> , 2013, 111, 164302.  | 2.9 | 34        |
| 6  | Rupture Termination in Laboratory-Generated Earthquakes. <i>Geophysical Research Letters</i> , 2018, 45, 12,784.   | 1.5 | 31        |
| 7  | The equation of motion for supershear frictional rupture fronts. <i>Science Advances</i> , 2018, 4, eaat5622.  | 4.7 | 31        |
| 8  | Fracture energy estimates from large-scale laboratory earthquakes. <i>Earth and Planetary Science Letters</i> , 2019, 511, 36-43.  | 1.8 | 25        |
| 9  | Dynamic fields at the tip of sub-Rayleigh and supershear frictional rupture fronts. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103826.   | 2.3 | 19        |
| 10 | Stochastic properties of static friction. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 147, 104242.   | 2.3 | 19        |
| 11 | A hybrid finite element-spectral boundary integral approach: Applications to dynamic rupture modeling in unbounded domains. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 317-338.   | 1.7 | 18        |
| 12 | The earthquake arrest zone. <i>Geophysical Journal International</i> , 2020, 224, 581-589.   | 1.0 | 18        |
| 13 | The existence of a critical length scale in regularised friction. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 63, 40-50.   | 2.3 | 17        |
| 14 | The onset of the frictional motion of dissimilar materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13379-13385.   | 3.3 | 17        |
| 15 | Off-fault heterogeneities promote supershear transition of dynamic mode II cracks. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6625-6641.   | 1.4 | 15        |
| 16 | Nucleation of frictional sliding by coalescence of microslip. <i>International Journal of Solids and Structures</i> , 2021, 225, 111059.   | 1.3 | 14        |
| 17 | A study of frictional contact in dynamic fracture along bimaterial interfaces. <i>International Journal of Fracture</i> , 2014, 189, 149-162.  | 1.1 | 13        |
| 18 | Length scale of interface heterogeneities selects propagation mechanism of frictional slip fronts. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 88, 23-34.  | 2.3 | 13        |

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|----|--|-----|-----------|
| 19 | The role of viscoelasticity on heterogeneous stress fields at frictional interfaces. <i>Mechanics of Materials</i> , 2015, 80, 276-287.  | 1.7 | 11        |
| 20 | Earthquake breakdown energy scaling despite constant fracture energy. <i>Nature Communications</i> , 2022, 13, 1005.   | 5.8 | 11        |
| 21 | A three-dimensional hybrid finite element " spectral boundary integral method for modeling earthquakes in complex unbounded domains. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6905-6923. | 1.5 | 10        |
| 22 | Effective Toughness of Heterogeneous Materials with Rate-Dependent Fracture Energy. <i>Physical Review Letters</i> , 2021, 127, 035501.  | 2.9 | 9         |
| 23 | UGUCA: A spectral-boundary-integral method for modeling fracture and friction. <i>SoftwareX</i> , 2021, 15, 100785.  | 1.2 | 7         |