

# ElÃ- as R Heimisson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1601470/publications.pdf>

Version: 2024-02-01

16  
papers

747  
citations

840776

11  
h-index

940533

16  
g-index

28  
all docs

28  
docs citations

28  
times ranked

942  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Segmented lateral dyke growth in a rifting event at Bárðarbunga volcanic system, Iceland. <i>Nature</i> , 2015, 517, 191-195.  | 27.8 | 436       |
| 2  | Kilometer-scale Kaiser effect identified in Krafla volcano, Iceland. <i>Geophysical Research Letters</i> , 2015, 42, 7958-7965.  | 4.0  | 43        |
| 3  | Forecasting the path of a laterally propagating dike. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8774-8792.  | 3.4  | 42        |
| 4  | Constitutive Law for Earthquake Production Based on Rate- and State Friction: Dieterich 1994 Revisited. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4141-4156.  | 3.4  | 32        |
| 5  | Unexpected large eruptions from buoyant magma bodies within viscoelastic crust. <i>Nature Communications</i> , 2020, 11, 2403.   | 12.8 | 29        |
| 6  | Poroelastic effects destabilize mildly rate-strengthening friction to generate stable slow slip pulses. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 130, 262-279.  | 4.8  | 27        |
| 7  | Evolution of deformation and stress changes during the caldera collapse and dyking at Bárðarbunga, 2014–2015: Implication for triggering of seismicity at nearby Tungnafellsjökull volcano. <i>Earth and Planetary Science Letters</i> , 2017, 462, 212-223. | 4.4  | 24        |
| 8  | Ridgecrest aftershocks at Coso suppressed by thermal destressing. <i>Nature</i> , 2021, 595, 70-74.  | 27.8 | 24        |
| 9  | Crack to pulse transition and magnitude statistics during earthquake cycles on a self-similar rough fault. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116202.   | 4.4  | 22        |
| 10 | Constitutive Law for Earthquake Production Based on Rate- and State Friction: Theory and Application of Interacting Sources. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1802-1821.   | 3.4  | 14        |
| 11 | Physically Consistent Modeling of Dike-Induced Deformation and Seismicity: Application to the 2014 Bárðarbunga Dike, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018141.  | 3.4  | 12        |
| 12 | Analytical Prediction of Seismicity Rate Due to Tides and Other Oscillating Stresses. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090827.   | 4.0  | 11        |
| 13 | Dilatancy and Compaction of a Rate- and State Fault in a Poroelastic Medium: Linearized Stability Analysis. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022071.  | 3.4  | 11        |
| 14 | Coulomb threshold rate-and-state model for fault reactivation: application to induced seismicity at Groningen. <i>Geophysical Journal International</i> , 2021, 228, 2061-2072.  | 2.4  | 10        |
| 15 | Logarithmic Growth of Dikes From a Depressurizing Magma Chamber. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086230.  | 4.0  | 4         |
| 16 | Spectral boundary integral method for simulating static and dynamic fields from a fault rupture in a poroelastodynamic solid. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 73.   | 2.9  | 2         |