

# Dag Kristian Dysthe

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

2,275  
citations

172457

29  
h-index

233421

45  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2157  
citing authors

| #  | ARTICLE                                                                                                                                                                                                             | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Cell crawling on a compliant substrate: A biphasic relation with linear friction. <i>International Journal of Non-Linear Mechanics</i> , 2022, 139, 103897.                                                         | 2.6 | 6         |
| 2  | Modeling $V_{i2}$ on-kinetics based on intensity-dependent delayed adjustment and loss of efficiency (DALE). <i>Journal of Applied Physiology</i> , 2022, 132, 1480-1488.                                           | 2.5 | 3         |
| 3  | Quartz dissolution associated with magnesium silicate hydrate cement precipitation. <i>Solid Earth</i> , 2021, 12, 389-404.                                                                                         | 2.8 | 6         |
| 4  | Oxygen Demand, Uptake, and Deficits in Elite Cross-Country Skiers during a 15-km Race. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 983-992.                                                      | 0.4 | 30        |
| 5  | Mechanisms of Phase Transformation and Creating Mechanical Strength in a Sustainable Calcium Carbonate Cement. <i>Materials</i> , 2020, 13, 3582.                                                                   | 2.9 | 12        |
| 6  | Fluid expulsion and microfracturing during the pyrolysis of an organic rich shale. <i>Fuel</i> , 2019, 235, 1-16.                                                                                                   | 6.4 | 29        |
| 7  | Nucleation in confinement generates long-range repulsion between rough calcite surfaces. <i>Scientific Reports</i> , 2019, 9, 8948.                                                                                 | 3.3 | 16        |
| 8  | Dynamics of Microscale Precursors During Brittle Compressive Failure in Carrara Marble. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6121-6139.                                                 | 3.4 | 39        |
| 9  | Setting behavior and bioactivity assessment of calcium carbonate cements. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6980-6990.                                                                    | 3.8 | 12        |
| 10 | Dynamic In Situ Three-Dimensional Imaging and Digital Volume Correlation Analysis to Quantify Strain Localization and Fracture Coalescence in Sandstone. <i>Pure and Applied Geophysics</i> , 2019, 176, 1083-1115. | 1.9 | 57        |
| 11 | A high resolution interferometric method to measure local swelling due to CO <sub>2</sub> exposure in coal and shale. <i>International Journal of Coal Geology</i> , 2018, 187, 131-142.                            | 5.0 | 17        |
| 12 | Propulsive Power in Cross-Country Skiing: Application and Limitations of a Novel Wearable Sensor-Based Method During Roller Skiing. <i>Frontiers in Physiology</i> , 2018, 9, 1631.                                 | 2.8 | 23        |
| 13 | Cavity Formation in Confined Growing Crystals. <i>Physical Review Letters</i> , 2018, 121, 096101.                                                                                                                  | 7.8 | 9         |
| 14 | In-situ imaging of fracture development during maturation of an organic-rich shale: Effects of heating rate and confinement. <i>Marine and Petroleum Geology</i> , 2018, 95, 314-327.                               | 3.3 | 12        |
| 15 | Microfluidic Control of Nucleation and Growth of CaCO <sub>3</sub> . <i>Crystal Growth and Design</i> , 2018, 18, 4528-4535.                                                                                        | 3.0 | 24        |
| 16 | Xurography for microfluidics on a reactive solid. <i>Lab on A Chip</i> , 2017, 17, 293-303.                                                                                                                         | 6.0 | 20        |
| 17 | Growth of Calcite in Confinement. <i>Crystals</i> , 2017, 7, 361.                                                                                                                                                   | 2.2 | 13        |
| 18 | Compaction of North-Sea Chalk by Pore-Failure and Pressure Solution in a Producing Reservoir. <i>Frontiers in Physics</i> , 2016, 4, .                                                                              | 2.1 | 18        |

| #  | ARTICLE                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A deformation rig for synchrotron microtomography studies of geomaterials under conditions down to 10 km depth in the Earth. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1030-1034.           | 2.4 | 63        |
| 20 | First principles model of carbonate compaction creep. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3348-3365.                                                                     | 3.4 | 4         |
| 21 | Microscopic modeling of confined crystal growth and dissolution. <i>Physical Review E</i> , 2016, 94, 023005.                                                                                         | 2.1 | 8         |
| 22 | Evolution of a fracture network in an elastic medium with internal fluid generation and expulsion. <i>Physical Review E</i> , 2014, 90, 052801.                                                       | 2.1 | 16        |
| 23 | Classification of fracture patterns by heterogeneity and topology. <i>Europhysics Letters</i> , 2014, 105, 56004.                                                                                     | 2.0 | 5         |
| 24 | Shaping the Interface – Interactions Between Confined Water and the Confining Solid. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 199-212.                   | 0.2 | 0         |
| 25 | Drainage fracture networks in elastic solids with internal fluid generation. <i>Europhysics Letters</i> , 2013, 102, 66002.                                                                           | 2.0 | 18        |
| 26 | The Role of Pressure Solution Creep in the Ductility of the Earth's Upper Crust. <i>Advances in Geophysics</i> , 2013, , 47-179.                                                                      | 2.8 | 197       |
| 27 | Effect of fluid salinity on subcritical crack propagation in calcite. <i>Tectonophysics</i> , 2013, 583, 68-75.                                                                                       | 2.2 | 49        |
| 28 | Amoeboid Swimming: A Generic Self-Propulsion of Cells in Fluids by Means of Membrane Deformations. <i>Physical Review Letters</i> , 2013, 111, 228102.                                                | 7.8 | 63        |
| 29 | A 4D Synchrotron X-Ray-Tomography Study of the Formation of Hydrocarbon-Migration Pathways in Heated Organic-Rich Shale. <i>SPE Journal</i> , 2013, 18, 366-377.                                      | 3.1 | 45        |
| 30 | How travertine veins grow from top to bottom and lift the rocks above them: The effect of crystallization force. <i>Geology</i> , 2012, 40, 1015-1018.                                                | 4.4 | 67        |
| 31 | Rim formation on crystal faces growing in confinement. <i>Journal of Crystal Growth</i> , 2012, 346, 89-100.                                                                                          | 1.5 | 22        |
| 32 | Strength evolution of a reactive frictional interface is controlled by the dynamics of contacts and chemical effects. <i>Earth and Planetary Science Letters</i> , 2012, 341-344, 20-34.              | 4.4 | 48        |
| 33 | Experimental investigation of surface energy and subcritical crack growth in calcite. <i>Journal of Geophysical Research</i> , 2011, 116, .                                                           | 3.3 | 87        |
| 34 | A compaction front in North Sea chalk. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.                                                                                                   | 3.3 | 35        |
| 35 | 4D imaging of fracturing in organic-rich shales during heating. <i>Journal of Geophysical Research</i> , 2011, 116, .                                                                                 | 3.3 | 87        |
| 36 | The mechanism of porosity formation during solvent-mediated phase transformations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 1408-1426. | 2.1 | 31        |

| #  | ARTICLE                                                                                                                                                                        | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Crack propagation driven by crystal growth. <i>Europhysics Letters</i> , 2011, 96, 24003.                                                                                      | 2.0 | 18        |
| 38 | Travertine terracing: patterns and mechanisms. <i>Geological Society Special Publication</i> , 2010, 336, 345-355.                                                             | 1.3 | 17        |
| 39 | Experimental calcite dissolution under stress: Evolution of grain contact microstructure during pressure solution creep. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 51        |
| 40 | Morphological transitions in partially gas-fluidized granular mixtures. <i>Physical Review E</i> , 2010, 81, 061305.                                                           | 2.1 | 11        |
| 41 | Role of friction-induced torque in stick-slip motion. <i>Europhysics Letters</i> , 2010, 92, 54001.                                                                            | 2.0 | 52        |
| 42 | Pattern formation during healing of fluid-filled cracks: an analog experiment. <i>Geofluids</i> , 2009, 9, 365-372.                                                            | 0.7 | 11        |
| 43 | Dissolution-precipitation recrystallization of miscut crystal surfaces under stress. <i>Journal of Crystal Growth</i> , 2009, 311, 1576-1583.                                  | 1.5 | 3         |
| 44 | Calcite precipitation instability under laminar, open-channel flow. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5009-5021.                                              | 3.9 | 28        |
| 45 | The dynamics of travertine dams. <i>Earth and Planetary Science Letters</i> , 2007, 256, 258-263.                                                                              | 4.4 | 33        |
| 46 | Evolution of mineral-fluid interfaces studied at pressure with synchrotron X-ray techniques. <i>Chemical Geology</i> , 2006, 230, 232-241.                                     | 3.3 | 11        |
| 47 | In situ AFM study of the dissolution and recrystallization behaviour of polished and stressed calcite surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1728-1738.  | 3.9 | 44        |
| 48 | Instabilities and Coarsening of Stressed Crystal Surfaces in Aqueous Solution. <i>Physical Review Letters</i> , 2006, 96, 146103.                                              | 7.8 | 11        |
| 49 | Oscillatory ductile compaction dynamics in a cylinder. <i>Physical Review E</i> , 2006, 74, 031301.                                                                            | 2.1 | 1         |
| 50 | Structure of plastically compacting granular packings. <i>Physical Review E</i> , 2006, 73, 051301.                                                                            | 2.1 | 8         |
| 51 | Evolution of fluid chemistry during travertine formation in the Troll thermal springs, Svalbard, Norway. <i>Geofluids</i> , 2005, 5, 140-150.                                  | 0.7 | 28        |
| 52 | Single-contact pressure solution creep on calcite monocrystals. <i>Geological Society Special Publication</i> , 2005, 243, 81-95.                                              | 1.3 | 17        |
| 53 | Transient dissolution patterns on stressed crystal surfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3317-3325.                                                     | 3.9 | 16        |
| 54 | Experimental pressure solution compaction of synthetic halite/calcite aggregates. <i>Tectonophysics</i> , 2004, 385, 45-57.                                                    | 2.2 | 44        |

| #  | ARTICLE                                                                                                                                                                                                     | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | High-resolution measurements of pressure solution creep. <i>Physical Review E</i> , 2003, 68, 011603.                                                                                                       | 2.1 | 35        |
| 56 | Subsurface combustion in Mali: Refutation of the active volcanism hypothesis in West Africa. <i>Geology</i> , 2003, 31, 581.                                                                                | 4.4 | 23        |
| 57 | Universal Scaling in Transient Creep. <i>Physical Review Letters</i> , 2002, 89, 246102.                                                                                                                    | 7.8 | 51        |
| 58 | Numerical modelling of pressure solution in sandstone, rate-limiting processes and the effect of clays. <i>Geological Society Special Publication</i> , 2002, 200, 41-60.                                   | 1.3 | 11        |
| 59 | The Li-H <sub>2</sub> system in a rigid-rotor approximation: potential energy surface and transport coefficients. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 1707-1725. | 1.5 | 14        |
| 60 | Coupling between pressure solution creep and diffusive mass transport in porous rocks. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 19-1-ECV 19-19.                                              | 3.3 | 61        |
| 61 | Fluid in mineral interfaces – molecular simulations of structure and diffusion. <i>Geophysical Research Letters</i> , 2002, 29, 13-1.                                                                       | 4.0 | 35        |
| 62 | Enhanced pressure solution creep rates induced by clay particles: Experimental evidence in salt aggregates. <i>Geophysical Research Letters</i> , 2001, 28, 1295-1298.                                      | 4.0 | 98        |
| 63 | Fluid transport properties by equilibrium molecular dynamics. III. Evaluation of united atom interaction potential models for pure alkanes. <i>Journal of Chemical Physics</i> , 2000, 112, 7581-7590.      | 3.0 | 72        |
| 64 | Fluid transport properties by equilibrium molecular dynamics. I. Methodology at extreme fluid states. <i>Journal of Chemical Physics</i> , 1999, 110, 4047-4059.                                            | 3.0 | 50        |
| 65 | Fluid transport properties by equilibrium molecular dynamics. II. Multicomponent systems. <i>Journal of Chemical Physics</i> , 1999, 110, 4060-4067.                                                        | 3.0 | 42        |
| 66 | Prediction of Fluid Mixture Transport Properties by Molecular Dynamics. <i>International Journal of Thermophysics</i> , 1998, 19, 437-448.                                                                  | 2.1 | 25        |
| 67 | Thermal diffusion in alkane binary mixtures. <i>Fluid Phase Equilibria</i> , 1998, 150-151, 151-159.                                                                                                        | 2.5 | 37        |
| 68 | Self-Diffusion Coefficients of Methane or Ethane Mixtures with Hydrocarbons at High Pressure by NMR. <i>Journal of Chemical &amp; Engineering Data</i> , 1996, 41, 598-603.                                 | 1.9 | 74        |
| 69 | Interferometric Technique for Measuring Interdiffusion at High Pressures. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11230-11238.                                                                 | 2.9 | 6         |
| 70 | Inter- and intradiffusion in liquid mixtures of methane and n-decane. <i>International Journal of Thermophysics</i> , 1995, 16, 1213-1224.                                                                  | 2.1 | 25        |
| 71 | Synchrotron 4D X-Ray Imaging Reveals Strain Localization at the Onset of System-Size Failure in Porous Reservoir Rocks. <i>Pure and Applied Geophysics</i> , 0, , .                                         | 1.9 | 6         |