

Khanh Chau Le

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

1,242
citations

21
h-index

31
g-index

105
ext. papers

1,322
ext. citations

3.3
avg, IF

5.3
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 99 | Thermodynamic dislocation theory: application to bcc-crystals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 015003 | 2 | 1 |
| 98 | Dislocation impediment by the grain boundaries in polycrystals. <i>Acta Mechanica</i> , 2021 , 232, 3193-3213 | 2.1 | 1 |
| 97 | Plane constrained shear of single crystals. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2109-2126 | 2.2 | 2 |
| 96 | Safe equilibrium and crack growth in inhomogeneous materials as a variational problem. <i>Engineering Fracture Mechanics</i> , 2021 , 256, 107960 | 4.2 | |
| 95 | Two universal laws for plastic flows and the consistent thermodynamic dislocation theory. <i>Mechanics Research Communications</i> , 2020 , 109, 103597 | 2.2 | 8 |
| 94 | Asymptotically exact theory of fiber-reinforced composite beams. <i>Composite Structures</i> , 2020 , 244, 112279 | 3.9 | |
| 93 | Scaling confirmation of the thermodynamic dislocation theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29431-29434 | 11.5 | 10 |
| 92 | Averaging in dislocation mediated plasticity. <i>International Journal of Engineering Science</i> , 2020 , 149, 103230 | 3.9 | 6 |
| 91 | Thermal softening during high-temperature torsional deformation of aluminum bars. <i>International Journal of Engineering Science</i> , 2019 , 137, 1-7 | 5.7 | 5 |
| 90 | Thermodynamic dislocation theory: Finite deformations. <i>International Journal of Engineering Science</i> , 2019 , 139, 1-10 | 5.7 | 6 |
| 89 | Introduction to the Special Issue in honor of Konstantin Lurie. <i>Archive of Applied Mechanics</i> , 2019 , 89, 403-407 | 2.2 | |
| 88 | High-temperature torsion of aluminum bars. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900005 | 0.2 | |
| 87 | Kinematic hardening and Bauschinger effect. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900011 | 0.2 | 2 |
| 86 | Size effect caused by excess dislocations in twisted micro-wires. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900012 | 0.2 | |
| 85 | Non-uniform plastic deformations of crystals undergoing anti-plane constrained shear. <i>Archive of Applied Mechanics</i> , 2019 , 89, 467-483 | 2.2 | |
| 84 | Thermodynamic dislocation theory: Size effect in torsion. <i>International Journal of Plasticity</i> , 2019 , 115, 56-70 | 7.6 | 15 |
| 83 | Thermodynamic dislocation theory of adiabatic shear banding in steel. <i>Scripta Materialia</i> , 2018 , 149, 62-65 | 6.6 | 45 |

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| 82 | Thermodynamic dislocation theory: Bauschinger effect. <i>Physical Review E</i> , 2018 , 97, 043002 | 2.4 | 11 |
| 81 | A Single Crystal Beam Bent in Double Slip. <i>Advanced Structured Materials</i> , 2018 , 223-246 | 0.6 | 0 |
| 80 | Thermodynamic dislocation theory for non-uniform plastic deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 111, 157-169 | 5 | 33 |
| 79 | Thermodynamic dislocation theory: Torsion of bars. <i>Physical Review E</i> , 2018 , 98, | 2.4 | 4 |
| 78 | An asymptotically exact theory of functionally graded piezoelectric shells. <i>International Journal of Engineering Science</i> , 2017 , 112, 42-62 | 5.7 | 31 |
| 77 | Optimal parameters uncoupling vibration modes of oscillators. <i>Journal of Sound and Vibration</i> , 2017 , 400, 122-133 | 3.9 | 2 |
| 76 | Elektro-Bergrettungsfahrzeug mit innovativem Fahrwerk. <i>ATZoffhighway</i> , 2017 , 10, 36-41 | | |
| 75 | Electrical Mountain Rescue Vehicle with Innovative Suspension. <i>ATZoffhighway Worldwide</i> , 2017 , 10, 36-41 | | 1 |
| 74 | Thermodynamic dislocation theory of high-temperature deformation in aluminum and steel. <i>Physical Review E</i> , 2017 , 96, 013004 | 2.4 | 38 |
| 73 | Dislocation mediated plastic flow in aluminum: Comparison between theory and experiment. <i>International Journal of Engineering Science</i> , 2017 , 119, 50-54 | 5.7 | 13 |
| 72 | Numerical solution of plane constrained shear problem for single crystals within continuum dislocation theory. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 475-476 | 0.2 | |
| 71 | Three-dimensional continuum dislocation theory. <i>International Journal of Plasticity</i> , 2016 , 76, 213-230 | 7.6 | 14 |
| 70 | Continuum dislocation theory accounting for redundant dislocations and Taylor hardening. <i>International Journal of Engineering Science</i> , 2016 , 106, 155-167 | 5.7 | 10 |
| 69 | Distribution of dislocations in twisted bars. <i>International Journal of Plasticity</i> , 2016 , 83, 110-125 | 7.6 | 10 |
| 68 | Self-energy of dislocations and dislocation pileups. <i>International Journal of Engineering Science</i> , 2016 , 100, 1-7 | 5.7 | 4 |
| 67 | An asymptotically exact theory of smart sandwich shells. <i>International Journal of Engineering Science</i> , 2016 , 106, 179-198 | 5.7 | 19 |
| 66 | Stress and dislocation distributions near a crack tip in ductile single crystals. <i>International Journal of Engineering Science</i> , 2016 , 102, 4-11 | 5.7 | 7 |
| 65 | Formation of grains and dislocation structure of geometrically necessary boundaries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 643, 12-16 | 5.3 | 5 |

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| 64 | Dislocation structure during microindentation. <i>International Journal of Engineering Science</i> , 2015 , 94, 195-211 | 5.7 | 13 |
| 63 | Amplitude modulation of water waves governed by Boussinesq equation. <i>Nonlinear Dynamics</i> , 2015 , 81, 659-666 | 5 | 14 |
| 62 | Formation of grain boundaries in ductile single crystals at finite plastic deformations. <i>International Journal of Plasticity</i> , 2015 , 69, 134-151 | 7.6 | 18 |
| 61 | Martensitic phase transition involving dislocations. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 79, 67-79 | 5 | 6 |
| 60 | Dislocation Structure of Grain Boundaries in Single Crystals Deforming in Simple Shear. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 319-320 | 0.2 | |
| 59 | Slope modulation of ring waves governed by two-dimensional sine-Gordon equation. <i>Wave Motion</i> , 2015 , 55, 84-88 | 1.8 | 3 |
| 58 | Energy Methods in Dynamics. <i>Interaction of Mechanics and Mathematics</i> , 2014 , | 9 | 7 |
| 57 | Optimisation of Roll Vibration Damping of a Vehicle. <i>ATZ Worldwide</i> , 2014 , 116, 62-67 | 0.1 | 1 |
| 56 | Damping of roll vibrations of vehicle suspension. <i>Vehicle System Dynamics</i> , 2014 , 52, 562-579 | 2.8 | 6 |
| 55 | A thermodynamically consistent model of static and dynamic recrystallization. <i>Archive of Applied Mechanics</i> , 2014 , 84, 1441-1451 | 2.2 | 0 |
| 54 | Amplitude modulation of waves governed by Korteweg-de Vries equation. <i>International Journal of Engineering Science</i> , 2014 , 83, 117-123 | 5.7 | 11 |
| 53 | Application of nonlinear continuum dislocation theory to antiplane shear. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 541-542 | 0.2 | |
| 52 | Nonlinear continuum dislocation theory revisited. <i>International Journal of Plasticity</i> , 2014 , 53, 164-178 | 7.6 | 37 |
| 51 | Slope modulation of waves governed by sine-Gordon equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 1563-1567 | 3.7 | 8 |
| 50 | On bending of single crystal beam with continuously distributed dislocations. <i>International Journal of Plasticity</i> , 2013 , 48, 152-167 | 7.6 | 21 |
| 49 | Polygonization: Theory and comparison with experiments. <i>International Journal of Engineering Science</i> , 2012 , 59, 211-218 | 5.7 | 23 |
| 48 | On torsion of a single crystal rod. <i>International Journal of Plasticity</i> , 2011 , 27, 460-469 | 7.6 | 29 |
| 47 | Polygonization as low energy dislocation structure. <i>Continuum Mechanics and Thermodynamics</i> , 2010 , 22, 291-298 | 3.5 | 13 |

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|----|---|-----|----|
| 46 | Are plastic yielding and work hardening sensitive to the boundary conditions?. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2010 , 10, 331-332 | 0.2 | |
| 45 | An Energetic Approach to Deformation Twinning. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010 , 141-155 | 0.3 | |
| 44 | Plastic Deformation of Bicrystals Within Continuum Dislocation Theory. <i>Mathematics and Mechanics of Solids</i> , 2009 , 14, 540-563 | 2.3 | 21 |
| 43 | A simple model for dynamic recrystallization during severe plastic deformation. <i>Archive of Applied Mechanics</i> , 2009 , 79, 579-586 | 2.2 | 12 |
| 42 | Plane constrained uniaxial extension of a single crystal strip. <i>International Journal of Plasticity</i> , 2009 , 25, 1950-1969 | 7.6 | 17 |
| 41 | Plane constrained uniaxial extension of a single crystal strip. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 311-312 | 0.2 | |
| 40 | A continuum model for initiation and evolution of deformation twinning. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 987-1002 | 5 | 32 |
| 39 | Plastic yielding and work hardening of single crystals in a soft device. <i>Comptes Rendus - Mecanique</i> , 2009 , 337, 709-715 | 2.1 | 1 |
| 38 | Dislocation pile-ups in bicrystals within continuum dislocation theory. <i>International Journal of Plasticity</i> , 2008 , 24, 2125-2147 | 7.6 | 36 |
| 37 | Analytical solution of plane constrained shear problem for single crystals within continuum dislocation theory. <i>Archive of Applied Mechanics</i> , 2008 , 78, 587-597 | 2.2 | 34 |
| 36 | Plastic deformation of bicrystals within continuum dislocation theory. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10435-10436 | 0.2 | |
| 35 | Plane constrained shear of single crystal strip with one and two active slip systems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2008 , 8, 10463-10464 | 0.2 | |
| 34 | Plane constrained shear of single crystal strip with two active slip systems. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 2541-2554 | 5 | 28 |
| 33 | Periodic debonding of an adhesive film. <i>Comptes Rendus - Mecanique</i> , 2008 , 336, 170-175 | 2.1 | 1 |
| 32 | Dislocation nucleation and work hardening in anti-plane constrained shear. <i>Continuum Mechanics and Thermodynamics</i> , 2007 , 18, 455-467 | 3.5 | 30 |
| 31 | On kinetics of hysteresis. <i>Continuum Mechanics and Thermodynamics</i> , 2006 , 18, 335-342 | 3.5 | 3 |
| 30 | Estimation of crack density due to fragmentation of brittle ellipsoidal inhomogeneities embedded in a ductile matrix. <i>Archive of Applied Mechanics</i> , 2005 , 74, 439-448 | 2.2 | 4 |
| 29 | On The Microcrack Nucleation In Brittle Solids. <i>International Journal of Fracture</i> , 2005 , 133, L47-L54 | 2.3 | 4 |

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| 28 | Estimation of crack density due to fragmentation of brittle ellipsoidal inhomogeneities. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 339-340 | 0.2 | |
| 27 | Microcrack nucleation in brittle solids. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2005 , 5, 343-344 | 0.2 | |
| 26 | Variational problems of crack equilibrium and crack propagation 2004 , 53-81 | | 1 |
| 25 | Driving force acting on a running crack. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2002 , 1, 24 | 0.2 | |
| 24 | Theory of charge nucleation in two dimensions. <i>Physical Review E</i> , 2002 , 66, 026129 | 2.4 | 5 |
| 23 | Energy Distribution in a Neutral Gas of Point Vortices. <i>Journal of Statistical Physics</i> , 2001 , 104, 881-892 | 1.5 | 8 |
| 22 | Determination of the driving force acting on a kinked crack. <i>Archive of Applied Mechanics</i> , 1999 , 69, 337-344 | 3.4 | 31 |
| 21 | Vibrations of Shells and Rods 1999 , | | 35 |
| 20 | Strain measures, integrability condition and frame indifference in the theory of oriented media. <i>International Journal of Solids and Structures</i> , 1998 , 35, 783-798 | 3.1 | 17 |
| 19 | Dissipative driving force in ductile crystals and the strain localization phenomenon. <i>International Journal of Plasticity</i> , 1998 , 14, 1109-1131 | 7.6 | 7 |
| 18 | High frequency vibrations and wave propagation in elastic shells: Variational-asymptotic approach. <i>International Journal of Solids and Structures</i> , 1997 , 34, 3923-3939 | 3.1 | 8 |
| 17 | On the determination of the crystal reference in nonlinear continuum theory of dislocations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1996 , 452, 359-371 | 2.4 | 42 |
| 16 | Nonlinear continuum theory of dislocations. <i>International Journal of Engineering Science</i> , 1996 , 34, 339-358 | 5.7 | 55 |
| 15 | A model of elastoplastic bodies with continuously distributed dislocations. <i>International Journal of Plasticity</i> , 1996 , 12, 611-627 | 7.6 | 75 |
| 14 | The singular elastostatic field due to a crack in rubberlike materials. <i>Journal of Elasticity</i> , 1993 , 32, 183-223 | 2.2 | 45 |
| 13 | Constitutive equations for elastoplastic bodies at finite strain: thermodynamic implementation. <i>Acta Mechanica</i> , 1993 , 100, 155-170 | 2.1 | 34 |
| 12 | ON THE SINGULAR ELASTOSTATIC FIELD INDUCED BY A CRACK IN A HADAMARD MATERIAL. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1992 , 45, 101-117 | 1 | 20 |
| 11 | Variational Formulation of the Crack Problem for an Elastoplastic Body at Finite Strain. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1992 , 72, 387-396 | 1 | 23 |

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| 10 | On bounding the effective conductivity of isotropic composite materials. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 1991 , 42, 614-622 | 1.6 | 14 |
| 9 | On shakedown of elastoplastic shells. <i>Quarterly of Applied Mathematics</i> , 1991 , 49, 781-793 | 0.7 | 5 |
| 8 | Variational principles of nonlinear fracture mechanics. <i>Acta Mechanica</i> , 1990 , 83, 25-37 | 2.1 | 53 |
| 7 | Variational estimates of the effective thermal conductivities of transversely isotropic composites. <i>Journal of Engineering Physics</i> , 1990 , 59, 1245-1250 | | 1 |
| 6 | Variational principles of non-linear theory of brittle fracture. <i>Prikladnaya Matematika I Mekhanika</i> , 1990 , 54, 543-549 | | 3 |
| 5 | Variational Inequalities in Brittle Fracture Mechanics 1989 , 144-151 | | 2 |
| 4 | High-frequency longitudinal vibrations of elastic rods. <i>Prikladnaya Matematika I Mekhanika</i> , 1986 , 50, 335-341 | | 5 |
| 3 | The theory of piezoelectric shells. <i>Prikladnaya Matematika I Mekhanika</i> , 1986 , 50, 98-105 | | 12 |
| 2 | High-frequency long-wave shell vibration. <i>Prikladnaya Matematika I Mekhanika</i> , 1980 , 44, 520-525 | | 5 |
| 1 | Thermodynamic theory of dislocation/grain boundary interaction. <i>Continuum Mechanics and Thermodynamics</i> , 1 | 3.5 | 0 |