

Khanh Chau Le

List of Publications by Citations

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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	A model of elastoplastic bodies with continuously distributed dislocations. <i>International Journal of Plasticity</i> , 1996 , 12, 611-627	7.6	75
98	Nonlinear continuum theory of dislocations. <i>International Journal of Engineering Science</i> , 1996 , 34, 339-358	5.8	55
97	Variational principles of nonlinear fracture mechanics. <i>Acta Mechanica</i> , 1990 , 83, 25-37	2.1	53
96	Thermodynamic dislocation theory of adiabatic shear banding in steel. <i>Scripta Materialia</i> , 2018 , 149, 62-65	5.6	45
95	The singular elastostatic field due to a crack in rubberlike materials. <i>Journal of Elasticity</i> , 1993 , 32, 183-223	2.2	45
94	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
93	Thermodynamic dislocation theory of high-temperature deformation in aluminum and steel. <i>Physical Review E</i> , 2017 , 96, 013004	2.4	38
92	Nonlinear continuum dislocation theory revisited. <i>International Journal of Plasticity</i> , 2014 , 53, 164-178	7.6	37
91	Dislocation pile-ups in bicrystals within continuum dislocation theory. <i>International Journal of Plasticity</i> , 2008 , 24, 2125-2147	7.6	36
90	Vibrations of Shells and Rods 1999 ,		35
89	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
88	Constitutive equations for elastoplastic bodies at finite strain: thermodynamic implementation. <i>Acta Mechanica</i> , 1993 , 100, 155-170	2.1	34
87	Thermodynamic dislocation theory for non-uniform plastic deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 111, 157-169	5	33
86	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
85	An asymptotically exact theory of functionally graded piezoelectric shells. <i>International Journal of Engineering Science</i> , 2017 , 112, 42-62	5.7	31
84	Determination of the driving force acting on a kinked crack. <i>Archive of Applied Mechanics</i> , 1999 , 69, 337-344	2.1	31
83	Dislocation nucleation and work hardening in anti-plane constrained shear. <i>Continuum Mechanics and Thermodynamics</i> , 2007 , 18, 455-467	3.5	30

82	On torsion of a single crystal rod. <i>International Journal of Plasticity</i> , 2011 , 27, 460-469	7.6	29
81	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
80	Polygonization: Theory and comparison with experiments. <i>International Journal of Engineering Science</i> , 2012 , 59, 211-218	5.7	23
79	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
78	On bending of single crystal beam with continuously distributed dislocations. <i>International Journal of Plasticity</i> , 2013 , 48, 152-167	7.6	21
77	Plastic Deformation of Bicrystals Within Continuum Dislocation Theory. <i>Mathematics and Mechanics of Solids</i> , 2009 , 14, 540-563	2.3	21
76	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
75	An asymptotically exact theory of smart sandwich shells. <i>International Journal of Engineering Science</i> , 2016 , 106, 179-198	5.7	19
74	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
73	Plane constrained uniaxial extension of a single crystal strip. <i>International Journal of Plasticity</i> , 2009 , 25, 1950-1969	7.6	17
72	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
71	Thermodynamic dislocation theory: Size effect in torsion. <i>International Journal of Plasticity</i> , 2019 , 115, 56-70	7.6	15
70	Three-dimensional continuum dislocation theory. <i>International Journal of Plasticity</i> , 2016 , 76, 213-230	7.6	14
69	Amplitude modulation of water waves governed by Boussinesq's equation. <i>Nonlinear Dynamics</i> , 2015 , 81, 659-666	5	14
68	On bounding the effective conductivity of isotropic composite materials. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 1991 , 42, 614-622	1.6	14
67	Dislocation structure during microindentation. <i>International Journal of Engineering Science</i> , 2015 , 94, 195-211	5.7	13
66	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
65	Polygonization as low energy dislocation structure. <i>Continuum Mechanics and Thermodynamics</i> , 2010 , 22, 291-298	3.5	13

64	A simple model for dynamic recrystallization during severe plastic deformation. <i>Archive of Applied Mechanics</i> , 2009 , 79, 579-586	2.2	12
63	The theory of piezoelectric shells. <i>Prikladnaya Matematika I Mekhanika</i> , 1986 , 50, 98-105		12
62	Thermodynamic dislocation theory: Bauschinger effect. <i>Physical Review E</i> , 2018 , 97, 043002	2.4	11
61	Amplitude modulation of waves governed by Korteweg-de Vries equation. <i>International Journal of Engineering Science</i> , 2014 , 83, 117-123	5.7	11
60	Continuum dislocation theory accounting for redundant dislocations and Taylor hardening. <i>International Journal of Engineering Science</i> , 2016 , 106, 155-167	5.7	10
59	Distribution of dislocations in twisted bars. <i>International Journal of Plasticity</i> , 2016 , 83, 110-125	7.6	10
58	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
57	Two universal laws for plastic flows and the consistent thermodynamic dislocation theory. <i>Mechanics Research Communications</i> , 2020 , 109, 103597	2.2	8
56	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
55	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
54	Energy Distribution in a Neutral Gas of Point Vortices. <i>Journal of Statistical Physics</i> , 2001 , 104, 881-892	1.5	8
53	Energy Methods in Dynamics. <i>Interaction of Mechanics and Mathematics</i> , 2014 ,	9	7
52	Dissipative driving force in ductile crystals and the strain localization phenomenon. <i>International Journal of Plasticity</i> , 1998 , 14, 1109-1131	7.6	7
51	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
50	Thermodynamic dislocation theory: Finite deformations. <i>International Journal of Engineering Science</i> , 2019 , 139, 1-10	5.7	6
49	Martensitic phase transition involving dislocations. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 79, 67-79	5	6
48	Damping of roll vibrations of vehicle suspension. <i>Vehicle System Dynamics</i> , 2014 , 52, 562-579	2.8	6
47	Averaging in dislocation mediated plasticity. <i>International Journal of Engineering Science</i> , 2020 , 149, 103230	3.7	6

46	Thermal softening during high-temperature torsional deformation of aluminum bars. <i>International Journal of Engineering Science</i> , 2019 , 137, 1-7	5.7	5
45	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
44	Theory of charge nucleation in two dimensions. <i>Physical Review E</i> , 2002 , 66, 026129	2.4	5
43	High-frequency longitudinal vibrations of elastic rods. <i>Prikladnaya Matematika I Mekhanika</i> , 1986 , 50, 335-341		5
42	High-frequency long-wave shell vibration. <i>Prikladnaya Matematika I Mekhanika</i> , 1980 , 44, 520-525		5
41	On shakedown of elastoplastic shells. <i>Quarterly of Applied Mathematics</i> , 1991 , 49, 781-793	0.7	5
40	Self-energy of dislocations and dislocation pileups. <i>International Journal of Engineering Science</i> , 2016 , 100, 1-7	5.7	4
39	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
38	On The Microcrack Nucleation In Brittle Solids. <i>International Journal of Fracture</i> , 2005 , 133, L47-L54	2.3	4
37	Thermodynamic dislocation theory: Torsion of bars. <i>Physical Review E</i> , 2018 , 98,	2.4	4
36	Slope modulation of ring waves governed by two-dimensional sine-Gordon equation. <i>Wave Motion</i> , 2015 , 55, 84-88	1.8	3
35	On kinetics of hysteresis. <i>Continuum Mechanics and Thermodynamics</i> , 2006 , 18, 335-342	3.5	3
34	Variational principles of non-linear theory of brittle fracture. <i>Prikladnaya Matematika I Mekhanika</i> , 1990 , 54, 543-549		3
33	Optimal parameters uncoupling vibration modes of oscillators. <i>Journal of Sound and Vibration</i> , 2017 , 400, 122-133	3.9	2
32	Variational Inequalities in Brittle Fracture Mechanics 1989 , 144-151		2
31	Kinematic hardening and Bauschinger effect. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900011	0.2	2
30	Plane constrained shear of single crystals. <i>Archive of Applied Mechanics</i> , 2021 , 91, 2109-2126	2.2	2
29	Optimisation of Roll Vibration Damping of a Vehicle. <i>ATZ Worldwide</i> , 2014 , 116, 62-67	0.1	1

28	Electrical Mountain Rescue Vehicle with Innovative Suspension. <i>ATZoffhighway Worldwide</i> , 2017 , 10, 36-41		1
27	Plastic yielding and work hardening of single crystals in a soft device. <i>Comptes Rendus - Mecanique</i> , 2009 , 337, 709-715	2.1	1
26	Periodic debonding of an adhesive film. <i>Comptes Rendus - Mecanique</i> , 2008 , 336, 170-175	2.1	1
25	Variational estimates of the effective thermal conductivities of transversely isotropic composites. <i>Journal of Engineering Physics</i> , 1990 , 59, 1245-1250		1
24	Variational problems of crack equilibrium and crack propagation 2004 , 53-81		1
23	Thermodynamic dislocation theory: application to bcc-crystals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 015003	2	1
22	Dislocation impediment by the grain boundaries in polycrystals. <i>Acta Mechanica</i> , 2021 , 232, 3193-3213	2.1	1
21	A Single Crystal Beam Bent in Double Slip. <i>Advanced Structured Materials</i> , 2018 , 223-246	0.6	0
20	A thermodynamically consistent model of static and dynamic recrystallization. <i>Archive of Applied Mechanics</i> , 2014 , 84, 1441-1451	2.2	0
19	Thermodynamic theory of dislocation/grain boundary interaction. <i>Continuum Mechanics and Thermodynamics</i> , 1	3.5	0
18	Introduction to the Special Issue in honor of Konstantin Lurie. <i>Archive of Applied Mechanics</i> , 2019 , 89, 403-407	2.2	
17	Asymptotically exact theory of fiber-reinforced composite beams. <i>Composite Structures</i> , 2020 , 244, 112237-9	3.9	
16	Elektro-Bergrettungsfahrzeug mit innovativem Fahrwerk. <i>ATZoffhighway</i> , 2017 , 10, 36-41		
15	Application of nonlinear continuum dislocation theory to antiplane shear. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 541-542	0.2	
14	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	
13	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	
12	Plane constrained uniaxial extension of a single crystal strip. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 311-312	0.2	
11	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	

- 10 Plastic deformation of bicrystals within continuum dislocation theory. *Proceedings in Applied Mathematics and Mechanics*, **2008**, 8, 10435-10436 0.2
- 9 Plane constrained shear of single crystal strip with one and two active slip systems. *Proceedings in Applied Mathematics and Mechanics*, **2008**, 8, 10463-10464 0.2
- 8 Driving force acting on a running crack. *Proceedings in Applied Mathematics and Mechanics*, **2002**, 1, 24 0.2
- 7 Estimation of crack density due to fragmentation of brittle ellipsoidal inhomogeneities. *Proceedings in Applied Mathematics and Mechanics*, **2005**, 5, 339-340 0.2
- 6 Microcrack nucleation in brittle solids. *Proceedings in Applied Mathematics and Mechanics*, **2005**, 5, 343-344 0.2
- 5 An Energetic Approach to Deformation Twinning. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 141-155 0.3
- 4 High-temperature torsion of aluminum bars. *Proceedings in Applied Mathematics and Mechanics*, **2019**, 19, e201900005 0.2
- 3 Size effect caused by excess dislocations in twisted micro-wires. *Proceedings in Applied Mathematics and Mechanics*, **2019**, 19, e201900012 0.2
- 2 Non-uniform plastic deformations of crystals undergoing anti-plane constrained shear. *Archive of Applied Mechanics*, **2019**, 89, 467-483 2.2
- 1 Safe equilibrium and crack growth in inhomogeneous materials as a variational problem. *Engineering Fracture Mechanics*, **2021**, 256, 107960 4.2