Stefan MÃ¼ller

List of Publications by Year in descending order

65 papers	4,640 citations	201385 27 h-index	114278 63 g-index
65 all docs	65 docs citations	65 times ranked	1776 citing authors

#	Article	IF	Citations
1	Korn inequalities for incompatible tensor fields in three space dimensions with conformally invariant dislocation energy. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	0.9	20
2	Local strong solutions to a quasilinear degenerate fourth-order thin-film equation. Nonlinear Differential Equations and Applications, 2020, 27, 1.	0.4	5
3	Estimates for the Green's Function of the Discrete Bilaplacian in Dimensions 2 and 3. Vietnam Journal of Mathematics, 2019, 47, 133-181.	0.4	9
4	Vector-Valued Partial Differential Equations and Applications. Lecture Notes in Mathematics, 2017, , .	0.1	1
5	Energy Bounds for a Compressed Elastic Film on a Substrate. Journal of Nonlinear Science, 2017, 27, 453-494.	1.0	13
6	Mathematical Problems in Thin Elastic Sheets: Scaling Limits, Packing, Crumpling and Singularities. Lecture Notes in Mathematics, 2017, , 125-193.	0.1	5
7	A note on the optimal constants in Korn's and geometric rigidity estimates in bounded and unbounded domains. Indiana University Mathematics Journal, 2016, 65, 377-397.	0.4	16
8	Folding Patterns in Partially Delaminated Thin Films. Lecture Notes in Applied and Computational Mechanics, 2016, , 25-39.	2.0	1
9	Almost Conical Deformations of Thin Sheets with Rotational Symmetry. SIAM Journal on Mathematical Analysis, 2014, 46, 25-44.	0.9	7
10	Korn's second inequality and geometric rigidity with mixed growth conditions. Calculus of Variations and Partial Differential Equations, 2014, 50, 437-454.	0.9	24
11	Conical singularities in thin elastic sheets. Calculus of Variations and Partial Differential Equations, 2014, 49, 1177-1186.	0.9	20
12	On a Differential Inclusion Related to the Born--Infeld Equations. SIAM Journal on Mathematical Analysis, 2014, 46, 2385-2403.	0.9	7
13	Derivation of a rod theory for biphase materials with dislocations at the interface. Calculus of Variations and Partial Differential Equations, 2013, 48, 315-335.	0.9	11
14	A Constrained Model for MSMA. Advanced Engineering Materials, 2012, 14, 594-600.	1.6	0
15	Caloric Effects in Ferroic Materials: New Concepts for Cooling. Advanced Engineering Materials, 2012, 14, 10-19.	1.6	278
16	Striped Periodic Minimizers of a Two-Dimensional Model for Martensitic Phase Transitions. Communications in Mathematical Physics, 2012, 309, 313-339.	1.0	13
17	Large Time Existence for Thin Vibrating Plates. Communications in Partial Differential Equations, 2011, 36, 2062-2102.	1.0	13
18	The time-dependent von Kármán plate equation as a limit of 3d nonlinear elasticity. Calculus of Variations and Partial Differential Equations, 2011, 41, 241-259.	0.9	26

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19	Singular Kernels, Multiscale Decomposition of Microstructure, and Dislocation Models. Archive for Rational Mechanics and Analysis, 2011, 199, 779-819.	1.1	31
20	On the Commutability of Homogenization and Linearization in Finite Elasticity. Archive for Rational Mechanics and Analysis, 2011, 201, 465-500.	1.1	21
21	Monotone curves. Mathematische Annalen, 2011, 351, 81-94.	0.7	2
22	The uniform Kornâ€"PoincarÃ© inequality in thin domains. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 443-469.	0.7	31
23	Compensated Compactness, Separately Convex Functions and Interpolatory Estimates between Riesz Transforms and Haar Projections. Communications in Partial Differential Equations, 2011, 36, 547-601.	1.0	8
24	Energy barriers and hysteresis in martensitic phase transformations. Acta Materialia, 2009, 57, 4332-4352.	3.8	243
25	Stability of Slender Bodies under Compression and Validity of the von KÃ¡rmÃ¡n Theory. Archive for Rational Mechanics and Analysis, 2009, 193, 255-310.	1.1	27
26	Strict Convexity of the Free Energy for a Class of Non-Convex Gradient Models. Communications in Mathematical Physics, 2009, 286, 359-376.	1.0	27
27	Existence of minimizers for a polyconvex energy in a crystal with dislocations. Calculus of Variations and Partial Differential Equations, 2008, 31, 473-482.	0.9	17
28	Rigorous Derivation of FÃ¶pplâ€™s Theory for Clamped Elastic Membranes Leads to Relaxation. SIAM Journal on Mathematical Analysis, 2006, 38, 657-680.	0.9	17
29	A Hierarchy of Plate Models Derived from Nonlinear Elasticity by Gamma-Convergence. Archive for Rational Mechanics and Analysis, 2006, 180, 183-236.	1.1	316
30	A Variational Model for Dislocations in the Line Tension Limit. Archive for Rational Mechanics and Analysis, 2006, 181, 535-578.	1.1	86
31	Self-similar folding patterns and energy scaling in compressed elastic sheets. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2534-2549.	3.4	22
32	Parabolic Systems with Nowhere Smooth Solutions. Archive for Rational Mechanics and Analysis, 2005, 177, 1-20.	1.1	15
33	Regularity properties of isometric immersions. Mathematische Zeitschrift, 2005, 251, 313-331.	0.4	25
34	Rigidity estimate for two incompatible wells. Calculus of Variations and Partial Differential Equations, 2004, 19, 379-390.	0.9	23
35	A-quasiconvexity: weak-star convergence and the gap. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2004, 21, 209-236.	0.7	19
36	?-quasiconvexitÃ© : convergence faible-â‹† et le trou. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2004, 21, 209-236.	0.7	1

#	ARTICLE	IF	CITATIONS
37	A nonlinear model for inextensible rods as a low energy $Gamma;$-limit ofBthree-dimensional nonlinear elasticity. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2004, 21, 271-293.	0.7	11
38	Convex integration for Lipschitz mappings and counterexamples to regularity. Annals of Mathematics, 2003, 157, 715-742.	2.1	160
39	Critique of the paper 'The relaxation non-quasiconvex variational integrals'. Numerische Mathematik, 2003, 93, 523-525.	0.9	1
40	Derivation of the nonlinear bending-torsion theory for inextensible rods by $Gamma$ -convergence. Calculus of Variations and Partial Differential Equations, 2003, 18, 287-305.	0.9	85
41	Studying Nonlinear pde by Geometry in Matrix Space. , 2003, , 347-395.		50
42	A theorem on geometric rigidity and the derivation of nonlinear plate theory from three-dimensional elasticity. Communications on Pure and Applied Mathematics, 2002, 55, 1461-1506.	1.2	493
43	A reduced theory for thin-film micromagnetics. Communications on Pure and Applied Mathematics, 2002, 55, 1408-1460.	1.2	109
44	Energy Scaling of Compressed Elastic Films -Three-Dimensional ElasticityÂ¶and Reduced Theories. Archive for Rational Mechanics and Analysis, 2002, 164, 1-37.	1.1	57
45	Twoâ€"dimensional modelling of soft ferromagnetic films. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 2983-2991.	1.0	45
46	A new approach to variational problems with multiple scales. Communications on Pure and Applied Mathematics, 2001, 54, 761-825.	1.2	76
47	A new approach to variational problems with multiple scales. Communications on Pure and Applied Mathematics, 2001, 54, 826-850.	1.2	18
48	The two-well problem in three dimensions. Calculus of Variations and Partial Differential Equations, 2000, 10, 21-40.	0.9	11
49	Quasiconvexity is not invariant under transposition. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2000, 130, 389-395.	0.8	8
50	An isoperimetric estimate and W ^{1,p} -quasiconvexity in nonlinear elasticity. Calculus of Variations and Partial Differential Equations, 1999, 8, 159-176.	0.9	9
51	$cal A$-Quasiconvexity, Lower Semicontinuity, and Young Measures. SIAM Journal on Mathematical Analysis, 1999, 30, 1355-1390.	0.9	183
52	Variational models for microstructure and phase transitions. Lecture Notes in Mathematics, 1999, , 85-210.	0.1	303
53	Analysis of Concentration and Oscillation Effects Generated by Gradients. SIAM Journal on Mathematical Analysis, 1998, 29, 736-756.	0.9	113
54	Microstructures, Phase Transitions and Geometry. Progress in Mathematics, 1998, , 92-115.	0.2	7

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55	Non-linear elliptic systems with measure-valued right hand side. Mathematische Zeitschrift, 1997, 226, 545-574.	0.4	65
56	Invertibility and a Topological Property of Sobolev Maps. SIAM Journal on Mathematical Analysis, 1996, 27, 959-976.	0.9	37
57	An existence theory for nonlinear elasticity that allows for cavitation. Archive for Rational Mechanics and Analysis, 1995, 131, 1-66.	1.1	143
58	Surface energy and microstructure in coherent phase transitions. Communications on Pure and Applied Mathematics, 1994, 47, 405-435.	1.2	204
59	Homogenization of nonlinearly elastic materials, microscopic bifurcation and macroscopic loss of rank-one convexity. Archive for Rational Mechanics and Analysis, 1993, 122, 231-290.	1.1	302
60	Relaxation of quasiconvex functional in BV(?, ?p) for integrands f(x, u,?;u). Archive for Rational Mechanics and Analysis, 1993, 123, 1-49.	1.1	128
61	On the singular support of the distributional determinant. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1993, 10, 657-696.	0.7	31
62	Branching of twins near an austeniteâ€"twinned-martensite interface. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 66, 697-715.	0.8	194
63	Quasi-Convex Integrands and Lower Semicontinuity in L^1. SIAM Journal on Mathematical Analysis, 1992, 23, 1081-1098.	0.9	141
64	Relaxation and regularization of nonconvex variational problems. Milan Journal of Mathematics, 1992, 62, 89-113.	0.1	18
65	Homogenization of nonconvex integral functionals and cellular elastic materials. Archive for Rational Mechanics and Analysis, 1987, 99, 189-212.	1.1	238