

Kiyohiro Ikeda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2534071/publications.pdf>

Version: 2024-02-01

90
papers

1,300
citations

331670

21
h-index

395702

33
g-index

93
all docs

93
docs citations

93
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifurcation hierarchy of symmetric structures. <i>International Journal of Solids and Structures</i> , 1991, 27, 1551-1573.	2.7	66
2	Bifurcation analysis of symmetric structures using block-diagonalization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991, 86, 215-243.	6.6	65
3	Implicit stress-update algorithm for isotropic Cam-clay model based on the subloading surface concept at finite strains. <i>International Journal of Plasticity</i> , 2010, 26, 634-658.	8.8	64
4	Spatial discounting, Fourier, and racetrack economy: A recipe for the analysis of spatial agglomeration models. <i>Journal of Economic Dynamics and Control</i> , 2012, 36, 1729-1759.	1.6	60
5	Imperfect Bifurcation in Structures and Materials. <i>Applied Mathematical Sciences (Switzerland)</i> , 2010, , .	0.8	60
6	Spatial period-doubling agglomeration of a core-periphery model with a system of cities. <i>Journal of Economic Dynamics and Control</i> , 2012, 36, 754-778.	1.6	58
7	Cyclic Response of Steel Braces. <i>Journal of Structural Engineering</i> , 1986, 112, 342-361.	3.4	52
8	Computational Use of Group Theory in Bifurcation Analysis of Symmetric Structures. <i>SIAM Journal on Scientific and Statistical Computing</i> , 1991, 12, 273-297.	1.5	48
9	Appropriate number of unit cells in a representative volume element for micro-structural bifurcation encountered in a multi-scale modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 2561-2585.	6.6	48
10	Critical initial imperfection of structures. <i>International Journal of Solids and Structures</i> , 1990, 26, 865-886.	2.7	46
11	Biological-data-based finite-element stress analysis of mandibular bone with implant-supported overdenture. <i>Computers in Biology and Medicine</i> , 2014, 54, 44-52.	7.0	46
12	Simulation and interpretation of diffuse mode bifurcation of elastoplastic solids. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 1649-1673.	4.8	33
13	Self-organization of hexagonal agglomeration patterns in new economic geography models. <i>Journal of Economic Behavior and Organization</i> , 2014, 99, 32-52.	2.0	33
14	Imperfect Bifurcation in Structures and Materials. <i>Applied Mathematical Sciences (Switzerland)</i> , 2002, , .	0.8	31
15	Echelon modes in uniform materials. <i>International Journal of Solids and Structures</i> , 1994, 31, 2709-2733.	2.7	27
16	Bifurcation Theory for Hexagonal Agglomeration in Economic Geography. , 2014, , .		27
17	Modified stiffness iteration to pinpoint multiple bifurcation points. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 2499-2522.	6.6	26
18	Computation of Critical Initial Imperfection of Truss Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 1990, 116, 2101-2117.	2.9	24

#	ARTICLE	IF	CITATIONS
19	Critical Imperfection of Symmetric Structures. SIAM Journal on Applied Mathematics, 1991, 51, 1222-1254.	1.8	24
20	STABLE ECONOMIC AGGLOMERATION PATTERNS IN TWO DIMENSIONS: BEYOND THE SCOPE OF CENTRAL PLACE THEORY. Journal of Regional Science, 2017, 57, 132-172.	3.3	24
21	Stress distribution in the peri-implant bone with splinted and non-splinted implants by in vivo loading data-based finite element analysis. Odontology / the Society of the Nippon Dental University, 2013, 101, 222-226.	1.9	23
22	On Random Imperfections for Structures of Regular-Polygonal Symmetry. SIAM Journal on Applied Mathematics, 1992, 52, 1780-1803.	1.8	22
23	Recursive Bifurcation as Sources of Complexity in Soil Shearing Behavior. Soils and Foundations, 1997, 37, 17-29.	3.1	20
24	Analysis on evolution pattern of periodically distributed defects. International Journal of Solids and Structures, 1997, 34, 3259-3272.	2.7	19
25	Recursive bifurcation of tensile steel specimens. International Journal of Engineering Science, 2001, 39, 1913-1934.	5.0	19
26	Bifurcations to Diversify Geometrical Patterns of Shear Bands on Granular Material. Physical Review Letters, 2008, 100, 198001.	7.8	19
27	Agglomeration patterns in a long narrow economy of a new economic geography model: Analogy to a racetrack economy. International Journal of Economic Theory, 2017, 13, 113-145.	0.6	19
28	Block-diagonalization analysis of symmetric plates. International Journal of Solids and Structures, 1992, 29, 2779-2793.	2.7	18
29	FLOWER PATTERNS APPEARING ON A HONEYCOMB STRUCTURE AND THEIR BIFURCATION MECHANISM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 497-515.	1.7	18
30	Imperfection sensitivity analysis of hill-top branching with many symmetric bifurcation points. International Journal of Solids and Structures, 2006, 43, 4704-4719.	2.7	16
31	SELF-ORGANIZATION OF LÄ-SCH'S HEXAGONS IN ECONOMIC AGGLOMERATION FOR CORE-PERIPHERY MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230026.	1.7	15
32	Imperfection Sensitivity for Size Effect of Granular Materials. Soils and Foundations, 1993, 33, 157-170.	3.1	15
33	Imperfection sensitivity of ultimate buckling strength of elasticâ€“plastic square plates under compression. International Journal of Non-Linear Mechanics, 2007, 42, 529-541.	2.6	14
34	Spatial period doubling, invariant pattern, and break point in economic agglomeration in two dimensions. Journal of Economic Dynamics and Control, 2018, 92, 129-152.	1.6	14
35	Imperfection sensitive variation of critical loads at hilltop bifurcation point. International Journal of Engineering Science, 2002, 40, 743-772.	5.0	13
36	Imperfection sensitivity and probabilistic variation of tensile strength of steel members. International Journal of Solids and Structures, 2002, 39, 1651-1671.	2.7	13

#	ARTICLE	IF	CITATIONS
37	Bifurcation mechanism underlying echelon-mode formation. Computer Methods in Applied Mechanics and Engineering, 1999, 170, 423-448.	6.6	12
38	Systematic description of imperfect bifurcation behavior of symmetric systems. International Journal of Solids and Structures, 1999, 36, 1561-1596.	2.7	12
39	Generalized sensitivity and probabilistic analysis of buckling loads of structures. International Journal of Non-Linear Mechanics, 2007, 42, 733-743.	2.6	12
40	Stability and sustainability of urban systems under commuting and transportation costs. Regional Science and Urban Economics, 2020, 84, 103553.	2.6	12
41	Image simulation of uniform materials subjected to recursive bifurcation. International Journal of Engineering Science, 2001, 39, 1963-1999.	5.0	11
42	Bifurcation Theory of a Racetrack Economy in a Spatial Economy Model. Networks and Spatial Economics, 2019, 19, 57-82.	1.6	11
43	Imperfection sensitivity of hilltop branching points of systems with dihedral group symmetry. International Journal of Non-Linear Mechanics, 2005, 40, 755-774.	2.6	10
44	Improvement of the scaled corrector method for bifurcation analysis using symmetry-exploiting block-diagonalization. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1648-1661.	6.6	10
45	GROUP-THEORETIC BIFURCATION MECHANISM OF PATTERN FORMATION IN THREE-DIMENSIONAL UNIFORM MATERIALS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2767-2797.	1.7	9
46	Bifurcation as Sources of Uncertainty in Soil Shearing Behavior. Soils and Foundations, 1996, 36, 73-84.	3.1	8
47	BIFURCATION DEFORMATION MODES AND SIZE/SHAPE EFFECTS OF TRIAXIAL SAND SPECIMENS. Doboku Gakkai Ronbunshu, 2002, 2002, 357-371.	0.2	6
48	Validating a 2-mode asymptotic expansion in computational bifurcation theory (Before introducing) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	6
49	Diffuse bifurcations engraving diverse shear bands in granular materials. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 3-33.	3.3	5
50	Asymptotic and Probabilistic Approach to Buckling of Structures and Materials. Applied Mechanics Reviews, 2008, 61, 040801.	10.1	4
51	Group-Theoretic Spectrum Analysis of Population Distribution in Southern Germany and Eastern USA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830045.	1.7	4
52	Imperfect Bifurcation in Structures and Materials. Applied Mathematical Sciences (Switzerland), 2019, , .	0.8	4
53	BLOCK-DIAGONALIZATION METHOD FOR SYMMETRIC STRUCTURES WITH ROTATIONAL DISPLACEMENTS. Doboku Gakkai Ronbunshu, 1994, 1994, 27-36.	0.2	3
54	DEGENERATION OF BIFURCATION HIERARCHY OF A RECTANGULAR PLATE DUE TO BOUNDARY CONDITIONS. Doboku Gakkai Ronbunshu, 1995, 1995, 65-75.	0.2	3

#	ARTICLE	IF	CITATIONS
55	STUDY ON APPLICABILITY OF ELASTO-PLASTIC FINITE ELEMENT ANALYSIS TO THE ESTIMATION OF UPLIFT BEHAVIOR OF BELLED PILE. Doboku Gakkai Ronbunshuu C, 2007, 63, 1-12.	0.1	3
56	GEOMETRICAL INVESTIGATION OF DEFORMATION PATTERNS OF SAND SPECIMENS UNDER PLANE-STRAIN COMPRESSION. Doboku Gakkai Ronbunshu, 2003, 2003, 87-98.	0.2	2
57	Subloading surface Cam-clay model with anisotropic rotational hardening for finite strains based on multiplicative decomposition of plastic deformation gradient tensor. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2013, 69, I_255-I_266.	0.1	2
58	A re-formulation of extended subloading surface model for cyclic plasticity within small strain framework: hyperelastic-based formulation and fully implicit return-mapping scheme. Transactions of the JSME (in Japanese), 2016, 82, 16-00197-16-00197.	0.2	2
59	Global bifurcation mechanism and local stability of identical and equidistant regions: Application to three regions and more. Regional Science and Urban Economics, 2021, 86, 103597.	2.6	2
60	Extended subloading surface model based on multiplicative finite strain elastoplasticity framework: constitutive formulation and fully implicit return-mapping scheme. Transactions of the JSME (in Japanese), 2016, 82, 16-00197-16-00197.	0.2	2
61	AN IMPROVEMENT OF THE STIFFNESS MODIFICATION METHOD TO FIND BIFURCATED PATHS AT A MULTIPLE BIFURCATION POINT. Doboku Gakkai Ronbunshuu A, 2006, 62, 782-793.	0.3	1
62	STABILITY ANALYSIS OF TRANSMISSION TOWER ON DEEP FOUNDATIONS CONSIDERING 3D SOIL-FOUNDATION-STRUCTURE INTERACTION. Doboku Gakkai Ronbunshuu C, 2008, 64, 782-801.	0.1	1
63	UPLIFT CAPACITY ANALYSIS OF ANCHOR FOUNDATION FOR TRANSMISSION TOWER ON SLOPE CREST. Journal of Japan Society of Civil Engineers Ser C (Geosphere Engineering), 2015, 71, 1-13.	0.2	1
64	Mathematical design and graphical solution of the multiple bifurcation equations of a 4-DoF benchmark model. Thin-Walled Structures, 2021, 166, 108010.	5.3	1
65	A STUDY OF GEOMETRICALLY STABLE PATTERNS ON A SQUARE LATTICE ECONOMY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2018, 74, 411-425.	0.1	1
66	Time Evolution of City Distributions in Germany. Networks and Spatial Economics, 2022, 22, 125-151.	1.6	1
67	BLOCK-DIAGONALIZATION METHOD FOR DYNAMIC PROBLEMS OF DAMPED SYMMETRIC STRUCTURES. Doboku Gakkai Ronbunshu, 1995, 1995, 169-178.	0.2	0
68	NUMERICAL IDENTIFICATION OF SECONDARY BUCKLING PHENOMENA OF ELASTIC RECTANGULAR PLATE UNDER PURE BENDING. Doboku Gakkai Ronbunshu, 1995, 1995, 67-78.	0.2	0
69	BIFURCATION MECHANISM OF PATTERN FORMATION FOR THREE-DIMENSIONAL UNIFORM MATERIALS. Doboku Gakkai Ronbunshu, 2001, 2001, 259-276.	0.2	0
70	IMPROVEMENT OF THE ACCURACY OF SCALED CORRECTOR METHOD AND PROPOSAL OF A BIFURCATION ANALYSIS PROCEDURE FOR SYMMETRIC STRUCTURES. Doboku Gakkai Ronbunshuu A, 2006, 62, 362-370.	0.3	0
71	SENSITIVITY LAW AND PROBABILISTIC VARIATION OF ELASTO-PLASTIC ULTIMATE STRENGTH OF IMPERFECT PLATES. Doboku Gakkai Ronbunshuu A, 2008, 64, 926-934.	0.3	0
72	AGGLOMERATION MECHANISM OF A SYSTEM OF CITIES ON A LINE SEGMENT. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2013, 69, 53-63.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Three dimensional bifurcation and strain localization behavior in cubic sand specimen. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2013, 69, 1_267-1_278.	0.1	0
74	BIFURCATION INDUCING AGGLOMERATION IN A RACETRACK ECONOMY: DEPENDENCE ON THE NUMBER OF CITIES. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2017, 73, 40-55.	0.1	0
75	GROUP-THEORETIC SPECTRUM ANALYSIS OF CITY DISTRIBUTION. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2017, 73, 148-164.	0.1	0
76	SPATIAL SPECTRUM ANALYSIS OF POPULATION DISTRIBUTIONS OVER A LONG NARROW ECONOMY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2018, 74, 50-63.	0.1	0
77	WORST IMPERFECTION OF AN ARCH-TYPE TRUSS WITH MULTIPLE MEMBER BUCKLING AT LIMIT POINT. Journal of Structural and Construction Engineering, 2007, 72, 71-77.	0.5	0
78	Probabilistic analysis of buckling loads of structures via extended Koiter law. Structural Engineering and Mechanics, 2009, 32, 167-178.	1.0	0
79	Agglomeration in Racetrack Economy. , 2014, , 77-103.		0
80	Introduction to Economic Agglomeration on Hexagonal Lattice. , 2014, , 107-124.		0
81	A re-formulation of extended subloading surface model for cyclic plasticity within small strain framework: hyperelastic-based formulation and fully implicit return-mapping scheme. The Proceedings of the Materials and Mechanics Conference, 2016, 2016, GS-49.	0.0	0
82	Bifurcation of Steel Specimens. Applied Mathematical Sciences (Switzerland), 2019, , 435-448.	0.8	0
83	Flower Patterns on Honeycomb Structures. Applied Mathematical Sciences (Switzerland), 2019, , 503-546.	0.8	0
84	Random Imperfection (I). Applied Mathematical Sciences (Switzerland), 2019, , 121-140.	0.8	0
85	Overview of Book. Applied Mathematical Sciences (Switzerland), 2019, , 1-32.	0.8	0
86	HIERARCHICAL SPATIAL MODELLING AND GROUP-THEORETIC SPECTRUM ANALYSIS OF REGIONAL POPULATION DISTRIBUTION. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning) Tj ETQq0 001rgBT /Overlock 10		
87	Numerical Analysis of Symmetric Systems. Applied Mathematical Sciences (Switzerland), 2019, , 335-360.	0.8	0
88	Echelon-Mode Formation. Applied Mathematical Sciences (Switzerland), 2019, , 449-501.	0.8	0
89	BIFURCATION ANALYSIS OF MONOCENTRIC AGGLOMERATION ON A LONG NARROW ECONOMY. Journal of Japan Society of Civil Engineers Ser D3 (Infrastructure Planning and Management), 2020, 76, 282-298.	0.1	0
90	Perturbed cusp catastrophe in a population game: Spatial economics with locational asymmetries. Journal of Regional Science, 0, , .	3.3	0