Takeru Igusa

List of Publications by Year
in descending order

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81	2,892	236925	175258
papers	citations	25 h-index	52 g-index

83	83	83	2537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influenza Forecasting with Google Flu Trends. PLoS ONE, 2013, 8, e56176.	2.5	275
2	Dynamic characteristics of multiple substructures with closely spaced frequencies. Earthquake Engineering and Structural Dynamics, 1992, 21, 1059-1070.	4.4	260
3	Calibration, validation, and sensitivity analysis: What's what. Reliability Engineering and System Safety, 2006, 91, 1331-1357.	8.9	247
4	Vibration Control Using Multiple Tuned Mass Dampers. Journal of Sound and Vibration, 1994, 175, 491-503.	3.9	230
5	Structural optimization under uncertain loads and nodal locations. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 116-124.	6.6	178
6	Modal decomposition method for stationary response of non-classically damped systems. Earthquake Engineering and Structural Dynamics, 1984, 12, 121-136.	4.4	132
7	Dynamic Characterization of Twoâ€Degreeâ€ofâ€Freedom Equipmentâ€Structure Systems. Journal of Engineering Mechanics - ASCE, 1985, 111, 1-19.	2.9	126
8	Prediction of residual stresses and strains in cold-formed steel members. Thin-Walled Structures, 2008, 46, 1274-1289.	5.3	119
9	Tuned mass dampers for structures with closely spaced natural frequencies. Earthquake Engineering and Structural Dynamics, 1995, 24, 247-261.	4.4	101
10	SEMI-ACTIVE DYNAMIC VIBRATION ABSORBERS FOR CONTROLLING TRANSIENT RESPONSE. Journal of Sound and Vibration, 1996, 198, 547-569.	3.9	80
11	Response of Uncertain Systems to Stochastic Excitation. Journal of Engineering Mechanics - ASCE, 1988, 114, 812-832.	2.9	79
12	Dynamic Response of Multiply Supported Secondary Systems. Journal of Engineering Mechanics - ASCE, 1985, 111, 20-41.	2.9	77
13	Autoantibodies and scleroderma phenotype define subgroups at high-risk and low-risk for cancer. Annals of the Rheumatic Diseases, 2018, 77, annrheumdis-2018-212999.	0.9	60
14	Generation of floor response spectra including oscillator-structure interaction. Earthquake Engineering and Structural Dynamics, 1985, 13, 661-676.	4.4	59
15	CQC and SRSS methods for non-classically damped structures. Earthquake Engineering and Structural Dynamics, 1995, 24, 615-619.	4.4	58
16	Reliability-based topology optimization of trusses with stochastic stiffness. Structural Safety, 2013, 43, 41-49.	5.3	55
17	Knowledge-based global optimization of cold-formed steel columns. Thin-Walled Structures, 2004, 42, 785-801.	5.3	51
18	Optimal design of trusses with geometric imperfections: Accounting for global instability. International Journal of Solids and Structures, 2011, 48, 3011-3019.	2.7	51

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19	Incorporating Systems Science Principles into the Development of Obesity Prevention Interventions: Principles, Benefits, and Challenges. Current Obesity Reports, 2015, 4, 174-181.	8.4	33
20	Applications of systems modelling in obesity research. Obesity Reviews, 2018, 19, 1293-1308.	6.5	33
21	Optimal placement and gains of sensors and actuators for feedback control. Journal of Guidance, Control, and Dynamics, 1994, 17, 929-934.	2.8	30
22	Bayesian analysis of uncertainty for structural engineering applications. Structural Safety, 2002, 24, 165-186.	5.3	30
23	Modeling the Impact of School-Based Universal Depression Screening on Additional Service Capacity Needs: A System Dynamics Approach. Administration and Policy in Mental Health and Mental Health Services Research, 2016, 43, 168-188.	2.1	30
24	Analysis of stress concentrations in plates with rectangular openings by a combined conformal mapping â€“ Finite element approach. International Journal of Solids and Structures, 2011, 48, 1991-2004.	2.7	29
25	Predictive Models for the Median and Variability of Building Period and Damping. Journal of Structural Engineering, 2009, 135, 576-586.	3.4	28
26	Response Characteristics of Inelastic 2â€ÐOF Primaryâ€Secondary System. Journal of Engineering Mechanics - ASCE, 1990, 116, 1160-1174.	2.9	27
27	Examining social norm impacts on obesity and eating behaviors among US school children based on agent-based model. BMC Public Health, 2014, 14, 923.	2.9	23
28	Acoustic radiation from a cylindrical shell with an internal plate. Wave Motion, 1992, 15, 23-41.	2.0	19
29	Statistics of surface renewal of passive scalars in free-surface turbulence. Journal of Fluid Mechanics, 2011, 678, 379-416.	3.4	19
30	Dynamic characteristics of non-classically damped structures. Earthquake Engineering and Structural Dynamics, 1991, 20, 1127-1144.	4.4	18
31	Improving health systems performance in low- and middle-income countries: a system dynamics model of the pay-for-performance initiative in Afghanistan. Health Policy and Planning, 2017, 32, 1417-1426.	2.7	18
32	PDFs of Tropical Tropospheric Humidity: Measurements and Theory. Journal of Climate, 2009, 22, 3357-3373.	3.2	17
33	Simulated Models Suggest That Price per Calorie Is the Dominant Price Metric That Low-Income Individuals Use for Food Decision Making. Journal of Nutrition, 2016, 146, 2304-2311.	2.9	16
34	Resonance characteristics of connected subsystems: Theory and simple configurations. Journal of Sound and Vibration, 1991, 146, 407-421.	3.9	15
35	Evolution of vulnerability of communities facing repeated hazards. PLoS ONE, 2017, 12, e0182719.	2.5	15
36	Nonaxisymmetric vibration and acoustic radiation of a submerged cylindrical shell of finite length containing internal substructures. Journal of the Acoustical Society of America, 1995, 98, 353-362.	1.1	14

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37	ACOUSTIC RADIATION FROM A FINITE-LENGTH SHELL WITH NON-AXISYMMETRIC SUBSTRUCTURES USING A SURFACE VARIATIONAL PRINCIPLE. Journal of Sound and Vibration, 1996, 197, 329-350.	3.9	13
38	Resonance characteristics of connected subsystems: General configurations. Journal of Sound and Vibration, 1991, 146, 423-437.	3.9	11
39	The effect of substructures on the acoustic radiation from axisymmetric shells of finite length. Journal of the Acoustical Society of America, 1994, 96, 246-255.	1.1	11
40	Response of primaryâ€“secondary systems to short-duration, wide-band input. Journal of Sound and Vibration, 1995, 185, 119-137.	3.9	11
41	Dynamic characteristics of laminated thin cylindrical shells: Asymptotic analysis accounting for edge effect. Composite Structures, 2014, 112, 22-37.	5.8	11
42	Modeling hospital energy and economic costs for COVID-19 infection control interventions. Energy and Buildings, 2021, 242, 110948.	6.7	10
43	Critical Configurations Of Systems Subjected To Wide-Band Input. Journal of Sound and Vibration, 1993, 168, 525-541.	3.9	9
44	Association of systemic lupus erythematosus autoantibody diversity with breast cancer protection. Arthritis Research and Therapy, 2021, 23, 64.	3.5	9
45	Wide-Band Response of Multiple Subsystems with High Modal Density. , 1991, , 131-145.		8
46	Taking dietary habits into account: A computational method for modeling food choices that goes beyond price. PLoS ONE, 2017, 12, e0178348.	2.5	8
47	Dynamic Response of Tertiary Subsystems. Journal of Engineering Mechanics - ASCE, 1988, 114, 1375-1395.	2.9	7
48	Nonstationary Response of Structures with Closely Spaced Frequencies. Journal of Engineering Mechanics - ASCE, 1992, 118, 1387-1405.	2.9	7
49	Combining a distributed flow manifold and 3D woven metallic lattices to enhance fluidic and thermal properties for heat transfer applications. International Journal of Heat and Mass Transfer, 2017, 108, 2169-2180.	4.8	7
50	Characteristics of Response to Nonstationary White Noise: Theory. Journal of Engineering Mechanics - ASCE, 1989, 115, 1904-1918.	2.9	6
51	A unified mode combination theory for stationary response of structural systems. Earthquake Engineering and Structural Dynamics, 1992, 21, 109-126.	4.4	6
52	The Effect Of Periodically Attached Substructures On The Excitation Of Submerged Cylindrical Shells. Journal of Sound and Vibration, 1994, 177, 379-392.	3.9	6
53	Random Composites Characterization Using a Classifier Model. Journal of Engineering Mechanics - ASCE, 2007, 133, 129-140.	2.9	6
54	Structural Topology Optimization Considering Correlated Uncertainties in Elastic Modulus. , 2010, , .		6

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55	Examining the structure and behavior of Afghanistanâ€™s routine childhood immunization system using system dynamics modeling. International Journal of Health Governance, 2017, 22, 212-227.	1.2	6
56	Frequency window method for forced vibration of structures with connected substructures. Journal of the Acoustical Society of America, 1992, 92, 2726-2733.	1.1	5
57	Reduction to parts: A semianalytical approach to the structural acoustics of a cylindrical shell with hemispherical endcaps. Journal of the Acoustical Society of America, 1996, 100, 871-881.	1.1	5
58	Applying an Innovative Model of Disaster Resilience at the Neighborhood Level. Public Health Reports, 2020, 135, 565-570.	2.5	5
59	Public health principles to inform testing and build trust in automated vehicles. Injury Prevention, 2020, 26, 494-498.	2.4	5
60	Planning for suicide prevention in Thai refugee camps: Using community-based system dynamics modeling.. Asian American Journal of Psychology, 2021, 12, 193-203.	1.2	5
61	Characteristics of Response to Nonstationary White Noise: Applications. Journal of Engineering Mechanics - ASCE, 1989, 115, 1919-1934.	2.9	4
62	Mobilities of periodic structures in terms of asymptotic modal properties. AIAA Journal, 1992, 30, 2520-2525.	2.6	4
63	Analysis of piping with hysteretic supports using response spectra. Nuclear Engineering and Design, 1993, 143, 187-199.	1.7	4
64	Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load. Wave Motion, 1995, 22, 259-277.	2.0	4
65	Statistics of Nadaraya-Watson estimator errors in surrogate-based optimization. Optimization and Engineering, 2006, 7, 385-397.	2.4	4
66	Feature-based classifiers for design optimization. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2007, 17, 189-206.	2.1	4
67	Quantitative Description of Coarse Aggregate Volume Fraction Gradients. Cement, Concrete and Aggregates, 2000, 22, 133-141.	0.1	4
68	Frequency Window Method for Strongly Coupled and Multiply Connected Structural Systems: One-Mode Windows. Journal of Applied Mechanics, Transactions ASME, 1992, 59, S236-S243.	2.2	3
69	Predictive Models from Statistically Nonconforming Databases. Journal of Structural Engineering, 2009, 135, 567-575.	3.4	3
70	Decomposing damped incident and reflected waves using correlation and quasi-linearization methods. Coastal Engineering, 2014, 91, 181-190.	4.0	3
71	A predictive model of rat calorie intake as a function of diet energy density. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R256-R266.	1.8	3
72	Cost-Effectiveness of Multifaceted Built Environment Interventions for Reducing Transmission of Pathogenic Bacteria in Healthcare Facilities. Herd, 2019, 12, 147-161.	1.5	3

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73	Agent-based modeling for implementation research: An application to tobacco smoking cessation for persons with serious mental illness. Implementation Research and Practice, 2021, 2, 263348952110106.	1.9	3
74	Development of a System Dynamics Model to Guide Retail Food Store Policies in Baltimore City. Nutrients, 2021, 13, 3055.	4.1	3
75	Optimal Design of Paired Built Environment Interventions for Control of MDROs in Acute Care and Community Hospitals. Herd, 2021, 14, 109-129.	1.5	3
76	Examining association between cohesion and diversity in collaboration networks of pharmaceutical clinical trials with drug approvals. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 62-70.	4.4	2
77	A Multi-Mesh Strategy for Continuum Topology Optimization under Correlated Uncertainties. , 2010, , .		1
78	Optimal Design of Trusses With Geometric Imperfections. , 2010, , .		1
79	Coherent vortical structures responsible for strong flux of scalar at free surface. International Journal of Heat and Mass Transfer, 2012, 55, 5157-5170.	4.8	1
80	Discussion of â€œ Eigenproperties of Nonclassically Damped MDOF Composite Systems â€•by R. S. Harichandran and Yan Zhang (July, 1989, Vol. 115, No. 7). Journal of Engineering Mechanics - ASCE, 1991, 117, 2942-2943.	2.9	0
81	Critical Configurations of Systems Subjected to Wide-Band Excitation. Lecture Notes in Engineering, 1991, , 369-386.	0.1	0