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	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
2	Association of systemic lupus erythematosus autoantibody diversity with breast cancer protection. Arthritis Research and Therapy, 2021, 23, 64.	3.5	9
3	Modeling hospital energy and economic costs for COVID-19 infection control interventions. Energy and Buildings, 2021, 242, 110948.	6.7	10
4	Development of a System Dynamics Model to Guide Retail Food Store Policies in Baltimore City. Nutrients, 2021, 13, 3055.	4.1	3
5	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
6	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
7	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
8	Applying an Innovative Model of Disaster Resilience at the Neighborhood Level. Public Health Reports, 2020, 135, 565-570.	2.5	5
9	Public health principles to inform testing and build trust in automated vehicles. Injury Prevention, 2020, 26, 494-498.	2.4	5
10	Cost-Effectiveness of Multifaceted Built Environment Interventions for Reducing Transmission of Pathogenic Bacteria in Healthcare Facilities. Herd, 2019, 12, 147-161.	1.5	3
11	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
12	Applications of systems modelling in obesity research. Obesity Reviews, 2018, 19, 1293-1308.	6.5	33
13	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
14	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
15	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
16	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
17	Evolution of vulnerability of communities facing repeated hazards. PLoS ONE, 2017, 12, e0182719.	2.5	15
18	Taking dietary habits into account: A computational method for modeling food choices that goes beyond price. PLoS ONE, 2017, 12, e0178348.	2.5	8

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19	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
20	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
21	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
22	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
23	Dynamic characteristics of laminated thin cylindrical shells: Asymptotic analysis accounting for edge effect. Composite Structures, 2014, 112, 22-37.	5.8	11
24	Decomposing damped incident and reflected waves using correlation and quasi-linearization methods. Coastal Engineering, 2014, 91, 181-190.	4.0	3
25	Reliability-based topology optimization of trusses with stochastic stiffness. Structural Safety, 2013, 43, 41-49.	5.3	55
26	Influenza Forecasting with Google Flu Trends. PLoS ONE, 2013, 8, e56176.	2.5	275
27	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
28	Statistics of surface renewal of passive scalars in free-surface turbulence. Journal of Fluid Mechanics, 2011, 678, 379-416.	3.4	19
29	Optimal design of trusses with geometric imperfections: Accounting for global instability. International Journal of Solids and Structures, 2011, 48, 3011-3019.	2.7	51
30	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
31	A Multi-Mesh Strategy for Continuum Topology Optimization under Correlated Uncertainties. , 2010, , .		1
32	Structural Topology Optimization Considering Correlated Uncertainties in Elastic Modulus. , 2010, , .		6
33	Optimal Design of Trusses With Geometric Imperfections. , 2010, , .		1
34	PDFs of Tropical Tropospheric Humidity: Measurements and Theory. Journal of Climate, 2009, 22, 3357-3373.	3.2	17
35	Predictive Models from Statistically Nonconforming Databases. Journal of Structural Engineering, 2009, 135, 567-575.	3.4	3
36	Predictive Models for the Median and Variability of Building Period and Damping. Journal of Structural Engineering, 2009, 135, 576-586.	3.4	28

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37	Structural optimization under uncertain loads and nodal locations. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 116-124.	6.6	178
38	Prediction of residual stresses and strains in cold-formed steel members. Thin-Walled Structures, 2008, 46, 1274-1289.	5.3	119
39	Random Composites Characterization Using a Classifier Model. Journal of Engineering Mechanics - ASCE, 2007, 133, 129-140.	2.9	6
40	Feature-based classifiers for design optimization. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2007, 17, 189-206.	2.1	4
41	Calibration, validation, and sensitivity analysis: What's what. Reliability Engineering and System Safety, 2006, 91, 1331-1357.	8.9	247
42	Statistics of Nadaraya-Watson estimator errors in surrogate-based optimization. Optimization and Engineering, 2006, 7, 385-397.	2.4	4
43	Knowledge-based global optimization of cold-formed steel columns. Thin-Walled Structures, 2004, 42, 785-801.	5.3	51
44	Bayesian analysis of uncertainty for structural engineering applications. Structural Safety, 2002, 24, 165-186.	5.3	30
45	Quantitative Description of Coarse Aggregate Volume Fraction Gradients. Cement, Concrete and Aggregates, 2000, 22, 133-141.	0.1	4
46	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
47	SEMI-ACTIVE DYNAMIC VIBRATION ABSORBERS FOR CONTROLLING TRANSIENT RESPONSE. Journal of Sound and Vibration, 1996, 198, 547-569.	3.9	80
48	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
49	Response of primaryâ€“secondary systems to short-duration, wide-band input. Journal of Sound and Vibration, 1995, 185, 119-137.	3.9	11
50	Tuned mass dampers for structures with closely spaced natural frequencies. Earthquake Engineering and Structural Dynamics, 1995, 24, 247-261.	4.4	101
51	CQC and SRSS methods for non-classically damped structures. Earthquake Engineering and Structural Dynamics, 1995, 24, 615-619.	4.4	58
52	Acoustic radiation from a finite-length shell with substructures subjected to an impulsive load. Wave Motion, 1995, 22, 259-277.	2.0	4
53	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
54	Optimal placement and gains of sensors and actuators for feedback control. Journal of Guidance, Control, and Dynamics, 1994, 17, 929-934.	2.8	30

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55	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
56	Vibration Control Using Multiple Tuned Mass Dampers. Journal of Sound and Vibration, 1994, 175, 491-503.	3.9	230
57	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
58	Critical Configurations Of Systems Subjected To Wide-Band Input. Journal of Sound and Vibration, 1993, 168, 525-541.	3.9	9
59	Analysis of piping with hysteretic supports using response spectra. Nuclear Engineering and Design, 1993, 143, 187-199.	1.7	4
60	Nonstationary Response of Structures with Closely Spaced Frequencies. Journal of Engineering Mechanics - ASCE, 1992, 118, 1387-1405.	2.9	7
61	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
62	Mobilities of periodic structures in terms of asymptotic modal properties. AIAA Journal, 1992, 30, 2520-2525.	2.6	4
63	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
64	Acoustic radiation from a cylindrical shell with an internal plate. Wave Motion, 1992, 15, 23-41.	2.0	19
65	A unified mode combination theory for stationary response of structural systems. Earthquake Engineering and Structural Dynamics, 1992, 21, 109-126.	4.4	6
66	Dynamic characteristics of multiple substructures with closely spaced frequencies. Earthquake Engineering and Structural Dynamics, 1992, 21, 1059-1070.	4.4	260
67	Resonance characteristics of connected subsystems: Theory and simple configurations. Journal of Sound and Vibration, 1991, 146, 407-421.	3.9	15
68	Dynamic characteristics of non-classically damped structures. Earthquake Engineering and Structural Dynamics, 1991, 20, 1127-1144.	4.4	18
69	Resonance characteristics of connected subsystems: General configurations. Journal of Sound and Vibration, 1991, 146, 423-437.	3.9	11
70	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
71	Wide-Band Response of Multiple Subsystems with High Modal Density. , 1991, , 131-145.		8
72	Critical Configurations of Systems Subjected to Wide-Band Excitation. Lecture Notes in Engineering, 1991, , 369-386.	0.1	0

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73	Response Characteristics of Inelastic 2â€DOF Primaryâ€Secondary System. Journal of Engineering Mechanics - ASCE, 1990, 116, 1160-1174.	2.9	27
74	Characteristics of Response to Nonstationary White Noise: Applications. Journal of Engineering Mechanics - ASCE, 1989, 115, 1919-1934.	2.9	4
75	Characteristics of Response to Nonstationary White Noise: Theory. Journal of Engineering Mechanics - ASCE, 1989, 115, 1904-1918.	2.9	6
76	Dynamic Response of Tertiary Subsystems. Journal of Engineering Mechanics - ASCE, 1988, 114, 1375-1395.	2.9	7
77	Response of Uncertain Systems to Stochastic Excitation. Journal of Engineering Mechanics - ASCE, 1988, 114, 812-832.	2.9	79
78	Generation of floor response spectra including oscillator-structure interaction. Earthquake Engineering and Structural Dynamics, 1985, 13, 661-676.	4.4	59
79	Dynamic Characterization of Twoâ€Degreeâ€ofâ€Freedom Equipmentâ€Structure Systems. Journal of Engineering Mechanics - ASCE, 1985, 111, 1-19.	2.9	126
80	Dynamic Response of Multiply Supported Secondary Systems. Journal of Engineering Mechanics - ASCE, 1985, 111, 20-41.	2.9	77
81	Modal decomposition method for stationary response of non-classically damped systems. Earthquake Engineering and Structural Dynamics, 1984, 12, 121-136.	4.4	132