

# Yoshikazu Araki

## List of Publications by Year in descending order

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76  
papers

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393982

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docs citations

76  
times ranked

948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Resistance of Cu-Al-Mn Superelastic Alloy Bars in Acidic and Alkaline Environments. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	2
2	Development of Single Crystal Cu-Al-Mn Superelastic Alloy and Its Application to Seismic Resistance Engineering. Materia Japan, 2021, 60, 54-56.	0.1	0
3	Rubble Stone Masonry Buildings with Cement Mortar: Base Shear Seismic Demand Comparison for Selected Countries Worldwide. Frontiers in Built Environment, 2021, 7, .	1.2	1
4	Orientation Dependence of Plasticity and Fracture in Single-Crystal Superelastic Cu-Al-Mn SMA Bars. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	13
5	Feasibility of Roll-Threading Superelastic Cu-Al-Mn SMA Rods. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	3
6	Experimental characterization and performance improvement evaluation of an electromagnetic transducer utilizing a tuned inerter. JVC/Journal of Vibration and Control, 2020, 26, 56-72.	1.5	23
7	Rubble Stone Masonry Buildings With Cement Mortar: Design Specifications in Seismic and Masonry Codes Worldwide. Frontiers in Built Environment, 2020, 6, .	1.2	7
8	Cost Analysis of Mountain Schools in Nepal: Comparison of Earthquake Resistant Features in Rubble Stone Masonry vs. Concrete Block Masonry. Frontiers in Built Environment, 2019, 5, .	1.2	4
9	Adhesion characteristics of geopolymer mortar to concrete and rebars. MATEC Web of Conferences, 2019, 258, 01012.	0.1	2
10	Reaction, Phases, and Microstructure of Fly Ash-Based Alkali-Activated Materials. Journal of Advanced Concrete Technology, 2019, 17, 93-101.	0.8	27
11	School Buildings in Rubble Stone Masonry With Cement Mortar in Seismic Areas: Literature Review of Seismic Codes, Technical Norms and Practical Manuals. Frontiers in Built Environment, 2019, 5, .	1.2	6
12	Abnormal Grain Growth Induced by Cyclic Heat Treatment and Fabrication of Cu-Based Shape Memory Alloy Single Crystal. Materia Japan, 2019, 58, 137-143.	0.1	0
13	Mechanical splicing of superelastic Cu-Al-Mn alloy bars with headed ends. Smart Materials and Structures, 2018, 27, 065025.	1.8	9
14	Radiation Shielding Properties and Freeze-Thaw Durability of High-Density Concrete for Storage of Radioactive Contaminated Soil in Fukushima. , 2018, , 97-109.		1
15	Enhancing the seismic performance of historic timber buildings in Asia by applying super-elastic alloy to a Chinese complex bracket system. International Journal of Architectural Heritage, 2018, 12, 734-748.	1.7	9
16	Structural control with tuned inertial mass electromagnetic transducers. Structural Control and Health Monitoring, 2018, 25, e2059.	1.9	32
17	Plastic hinge relocation in reinforced concrete beams using Cu-Al-Mn SMA bars. Engineering Structures, 2018, 175, 765-775.	2.6	29
18	Adjustable vertical vibration isolator with a variable ellipse curve mechanism. Earthquake Engineering and Structural Dynamics, 2017, 46, 1345-1366.	2.5	7

#	ARTICLE	IF	CITATIONS
19	Consistent DOF reduction of tall steel frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 1581-1597.	2.5	13
20	Ultra-large single crystals by abnormal grain growth. Nature Communications, 2017, 8, 354.	5.8	135
21	Energy harvesting potential of tuned inertial mass electromagnetic transducers. Mechanical Systems and Signal Processing, 2017, 84, 659-672.	4.4	64
22	Use of shape-memory alloys in construction: a critical review. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2016, 169, 87-95.	0.3	49
23	Shaking table tests of steel frame with superelastic Cu-Al-Mn SMA tension braces. Earthquake Engineering and Structural Dynamics, 2016, 45, 297-314.	2.5	47
24	Functional Fatigue of Polycrystalline Cu-Al-Mn Superelastic Alloy Bars under Cyclic Tension. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	14
25	Integrated mechanical and material design of quasi-zero-stiffness vibration isolator with superelastic Cu-Al-Mn shape memory alloy bars. Journal of Sound and Vibration, 2015, 358, 74-83.	2.1	48
26	Feasibility of Cu-Al-Mn superelastic alloy bar as a self-sensor material. Journal of Intelligent Material Systems and Structures, 2015, 26, 364-370.	1.4	3
27	Feasibility of externally activated self-repairing concrete with epoxy injection network and Cu-Al-Mn superelastic alloy reinforcing bars. Smart Materials and Structures, 2014, 23, 105027.	1.8	15
28	Feasibility of tension braces using Cu-Al-Mn superelastic alloy bars. Structural Control and Health Monitoring, 2014, 21, 1304-1315.	1.9	38
29	Loading rate and temperature dependency of superelastic Cu-Al-Mn alloys. Construction and Building Materials, 2014, 53, 555-560.	3.2	30
30	EXAMINING MECHANISMS BEHIND DEFORMATION CONCENTRATION INTO LOWER STORIES BASED ON MODAL DECOMPOSITION USING TANGENT STIFFNESS MATRIX. Journal of Structural and Construction Engineering, 2014, 79, 1491-1501.	0.2	0
31	DEVELOPMENT OF TURNBUCKLE BRACE WITH Cu-Al-Mn SUPERELASTIC ALLOY TO REDUCE RESIDUAL DEFORMATION. Journal of Structural and Construction Engineering, 2014, 79, 163-172.	0.2	4
32	A DESIGN METHOD FOR OPTIMAL TRUSS STRUCTURES WITH REDUNDANCY BASED ON COMBINATORIAL RIGIDITY THEORY. Journal of Structural and Construction Engineering, 2014, 79, 583-592.	0.2	0
33	A development of optimized radiation shielding design method for contaminated soil in Fukushima. Progress in Nuclear Science and Technology, 2014, 4, 51-55.	0.3	1
34	Abnormal Grain Growth Induced by Cyclic Heat Treatment. Science, 2013, 341, 1500-1502.	6.0	216
35	Nonlinear vibration isolator with adjustable restoring force. Journal of Sound and Vibration, 2013, 332, 6063-6077.	2.1	32
36	Effectiveness of superelastic bars for seismic rehabilitation of clay-unit masonry walls. Earthquake Engineering and Structural Dynamics, 2013, 42, 725-741.	2.5	14

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37	Pinning retrofit technique in masonry with application of polymer-cement pastes as bonding agents. Earthquake and Structures, 2013, 5, 477-497.	1.0	2
38	Feasibility of Cu-Al-Mn superelastic alloy bars as reinforcement elements in concrete beams. Smart Materials and Structures, 2013, 22, 025025.	1.8	55
39	DEFORMATION CONCENTRATION TO LOWER STORIES IN HIGH-RISE STEEL BUCKLING-RESTRAINED BRACED FRAMES SUBJECT TO LONG-PERIOD EARTHQUAKE GROUND MOTIONS. Journal of Structural and Construction Engineering, 2013, 78, 743-752.	0.2	2
40	Evaluation of Gamma Radiation Shielding Performance of Cylindrical Concrete Containers Using Soil Volume Source Contaminated by Radioactive Cesium. Concrete Research and Technology, 2013, 24, 43-52.	0.1	3
41	THE AUTHOR'S ANSWER TO DISCUSSION BY HITOSHI KUWAMURA. Journal of Structural and Construction Engineering, 2012, 77, 515-516.	0.2	0
42	Rate-dependent response of superelastic Cu-Al-Mn alloy rods to tensile cyclic loads. Smart Materials and Structures, 2012, 21, 032002.	1.8	32
43	Application of Cu-Al-Mn superelastic alloy bars as reinforcement elements in concrete beams. , 2012, , .		3
44	EXPERIMENTAL EVALUATION OF QUASI-FIRE-RESISTIVE PERFORMANCE OF STEEL-TIMBER COMPOSITE MEMBERS USING HIGH-STRENGTH BOLTS. AII Journal of Technology and Design, 2011, 17, 543-547.	0.1	0
45	INTERACTIVE SECTION DETERMINATION METHOD OF STEEL STRUCTURES WITH MEMBER GROUPING PROCESSES. Journal of Structural and Construction Engineering, 2011, 76, 1161-1169.	0.2	3
46	SHAPE AND SECTION OPTIMIZATION FOR FREE-FORM STEEL STRUCTURES CONSIDERING CONNECTION COST. Journal of Structural and Construction Engineering, 2011, 76, 2123-2132.	0.2	1
47	BENDING PROPERTIES OF STEEL-TIMBER COMPOSITE AXIAL MEMBERS FORMED WITH FRICTION-TYPE CONNECTIONS USING TORSHEAR-TYPE HIGH-STRENGTH BOLTS. Journal of Structural and Construction Engineering, 2011, 76, 591-598.	0.2	0
48	Response of vibration-isolated object to ground motions with intense vertical accelerations. Engineering Structures, 2011, 33, 3610-3619.	2.6	10
49	Feasibility of improved slotted bolted connection for timber moment frames. Journal of Wood Science, 2011, 57, 247-253.	0.9	19
50	Potential of superelastic Cu-Al-Mn alloy bars for seismic applications. Earthquake Engineering and Structural Dynamics, 2011, 40, 107-115.	2.5	102
51	Applicability of Cu-Al-Mn shape memory alloy bars to retrofitting of historical masonry constructions. Earthquake and Structures, 2011, 2, 233-256.	1.0	16
52	Finite Element Modeling of Cyclic Out-of-Plane Response of Masonry Walls Retrofitted by Inserting Inclined Stainless Steel Bars. Journal of Disaster Research, 2011, 6, 36-43.	0.4	8
53	PROPOSAL OF ELASTIC BUCKLING STRENGTH FORMULA FOR COLUMNS IN STEEL MOMENT FRAMES CONSIDERING ANTI-SYMMETRIC AXIAL FORCES CAUSED BY HORIZONTAL LOADS. Journal of Structural and Construction Engineering, 2010, 75, 2045-2054.	0.2	1
54	Vertical vibration isolator having piecewise-constant restoring force. Earthquake Engineering and Structural Dynamics, 2009, 38, 1505-1523.	2.5	25

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55	STATIC FRICTION COEFFICIENT BETWEEN COLUMN BASE AND FOUNDATION STONE OF JAPANESE TRADITIONAL TIMBER BUILDINGS. <i>AJ Journal of Technology and Design</i> , 2009, 15, 405-409.	0.1	5
56	OPTIMUM DESIGN METHOD FOR A STEEL FRAME CONSIDERING PRIOR INFORMATION ON PARAMETERS USING BAYESIAN INFORMATION CRITERION. <i>Journal of Structural and Construction Engineering</i> , 2009, 74, 2021-2028.	0.2	0
57	SEISMIC RETROFIT OF HISTORIC MASONRY CONSTRUCTIONS BY INSERTING STAINLESS PINS. <i>Journal of Structural and Construction Engineering</i> , 2009, 74, 167-176.	0.2	1
58	INFLUENCE OF P-DELTA EFFECT ON DYNAMIC RESPONSE OF HIGH-RISE MOMENT-RESISTING STEEL BUILDINGS SUBJECT TO EXTREME EARTHQUAKE GROUND MOTIONS. <i>Journal of Structural and Construction Engineering</i> , 2009, 74, 1861-1868.	0.2	8
59	MODELLING OF COLUMN BASE FOR TRADITIONAL TIMBER BUILDINGS BASED ON LOCAL COMPRESSION EXPERIMENTS AT CONTACT SURFACE BETWEEN COLUMN BASE AND FOUNDATION STONE. <i>Journal of Structural and Construction Engineering</i> , 2009, 74, 865-872.	0.2	12
60	Vertical Vibration Isolation Device Using Constant Load Supporting Mechanism. , 2008, , .		0
61	VERTICAL SEISMIC ISOLATION DEVICE USING CONSTANT LOAD SUPPORTING MECHANISMS. <i>Journal of Structural and Construction Engineering</i> , 2008, 73, 1511-1518.	0.2	3
62	ESTIMATION OF SEMI-RIGID CHARACTERISTICS FOR COLUMN-NUKI JOINTS OF TRADITIONAL TIMBER ARCHITECTURE BASED ON LOCAL COMPRESSION EXPERIMENTS. <i>Journal of Structural and Construction Engineering</i> , 2008, 73, 1577-1584.	0.2	2
63	TANGENT STIFFNESS MATRIX OF 3D BEAM-COLUMN ELEMENT AT APEX OF YIELD SURFACE FOR GENERALIZED PLASTIC HINGES. <i>Journal of Structural and Construction Engineering</i> , 2008, 73, 2129-2134.	0.2	0
64	OUT-OF-PLANE FLEXURAL STRENGTH OF HISTORIC BRICK WALLS UNDER MONOTONIC LOADING REINFORCED BY INSERTING STAINLESS PINS. <i>AJ Journal of Technology and Design</i> , 2007, 13, 147-152.	0.1	1
65	FORMULATIONS FOR PLANE BEAM-COLUMN ELEMENT WITH GENERALIZED PLASTIC HINGES AT BOTH ENDS : Application of kinematic hardening rules to singular yield surfaces, revisited. <i>Journal of Structural and Construction Engineering</i> , 2007, 72, 51-58.	0.2	1
66	STABILITY DESIGN OF PLANE STEEL FRAMES USING LINEARIZED BUCKLING ANALYSIS : Part 2 Formulation for earthquake loading and application to a braced frame. <i>Journal of Structural and Construction Engineering</i> , 2005, 70, 129-136.	0.2	2
67	Mixed Integer Nonlinear Least-Squares Problem for Damage Detection in Truss Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 659-667.	1.6	5
68	EXPERIMENTAL STUDY ON TWO-DIMENSIONAL CONTACT MODELS FOR COLUMN BASE OF TRADITIONAL TIMBER BUILDINGS. <i>Journal of Structural and Construction Engineering</i> , 2004, 69, 117-122.	0.2	5
69	STABILITY DESIGN OF PLANE STEEL FRAMES USING LINEARIZED BUCKLING ANALYSIS : Part 1 A basic framework and application to an unbraced frame. <i>Journal of Structural and Construction Engineering</i> , 2004, 69, 211-218.	0.2	2
70	Time-harmonic BEM for 2-D piezoelectricity applied to eigenvalue problems. <i>International Journal of Solids and Structures</i> , 2004, 41, 7241-7265.	1.3	34
71	Rate-dependent projection operators for frictional contact constraints. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 57, 923-954.	1.5	3
72	Optimum Sensitivity-Based Statistical Parameters Estimation from Modal Response. <i>AIAA Journal</i> , 2001, 39, 1166-1174.	1.5	8

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73	Criteria for assessing dynamic collapse of elastoplastic structural systems. Earthquake Engineering and Structural Dynamics, 2000, 29, 1177-1198.	2.5	28
74	Symmetry limit theory for elastic-perfectly plastic continua in the shakedown region. Journal of the Mechanics and Physics of Solids, 2000, 48, 2035-2056.	2.3	5
75	Steady-State Limit of Elastoplastic Trusses for the Plastic Shakedown Region. Journal of Applied Mechanics, Transactions ASME, 2000, 67, 581-589.	1.1	0
76	Steady-state limit analysis of elastoplastic trusses under cyclic loads. International Journal of Solids and Structures, 1999, 36, 3051-3071.	1.3	2