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Feasibility of tension braces using CuAlMn superelastic alloy bars

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#	Paper	IF	Citations
37	BCC/FCC Martensitic Transformation and Superelasticity in Fe-Based Alloys. <i>Materia Japan</i> , 2015 , 54, 398-404	0.1	3
36	Advanced materials for control of post-earthquake damage in bridges. <i>Smart Materials and Structures</i> , 2015 , 24, 025035	3.4	27
35	Modeling and simulation of spring steel damper based on parameter identification with a heuristic optimization approach. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 1465-1472	1.6	2
34	Use of shape-memory alloys in construction: a critical review. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2016 , 169, 87-95	0.4	31
33	Seismic collapse evaluation of steel moment resisting frames with superelastic viscous damper. <i>Journal of Constructional Steel Research</i> , 2016 , 126, 26-36	3.8	29
32	Shaking table tests of steel frame with superelastic CuAlMn SMA tension braces. <i>Earthquake Engineering and Structural Dynamics</i> , 2016 , 45, 297-314	4	39
31	Improvement of damping properties in laser processed superelastic Cu-Al-Mn shape memory alloys. <i>Materials and Design</i> , 2016 , 98, 280-284	8.1	40
30	Feasibility of shape memory alloy in a tuneable mass damper to reduce excessive in-service vibration. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e1858	4.5	18
29	Slack free connections to improve seismic behavior of tension-only braces: An experimental and analytical study. <i>Engineering Structures</i> , 2017 , 136, 54-67	4.7	12
28	Resilient deconstructible columns for accelerated bridge construction in seismically active areas. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 1751-1774	2.3	10
27	Laser welding of Cu-Al-Be shape memory alloys: Microstructure and mechanical properties. <i>Materials and Design</i> , 2018 , 148, 145-152	8.1	50
26	Experimental investigations on seismic control of cable-stayed bridges using shape memory alloy self-centering dampers. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2180	4.5	24
25	Quantification of seismic performance factors for ribbed bracing system. <i>Engineering Structures</i> , 2018 , 176, 159-174	4.7	4
24	Probabilistic seismic performance evaluation of SMA-braced steel frames considering SMA brace failure. <i>Bulletin of Earthquake Engineering</i> , 2018 , 16, 5937-5962	3.7	23
23	The Effect of Temperature on Seismic Response of CuAlMn SMA Braced Frame. <i>International Journal of Civil Engineering</i> , 2018 , 16, 1687-1697	1.9	3
22	A novel shape memory alloy damping inerter for vibration mitigation. <i>Smart Materials and Structures</i> , 2019 , 28, 115002	3.4	10
21	Passive seismic unseating prevention strategies implemented in highway bridges: A state-of-the-art review. <i>Engineering Structures</i> , 2019 , 194, 77-93	4.7	31

20	Seismic retrofit of precast soft-storey building using diagonal steel-shape memory alloy bracing device: Numerical investigation. <i>Advances in Structural Engineering</i> , 2019 , 22, 802-817	1.9	7
19	Influence of shape memory alloy brace design parameters on seismic performance of self-centering steel frame buildings. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2462	4.5	20
18	Towards applications, processing and advancements in shape memory alloy and its composites. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 205-222	5	14
17	Performance-Based Seismic Design of RC Moment Resisting Frames with Friction-Damped Self-Centering Tension Braces. <i>Journal of Earthquake Engineering</i> , 2020 , 1-20	1.8	4
16	Adaptive tuned mass damper with shape memory alloy for seismic application. <i>Engineering Structures</i> , 2020 , 223, 111171	4.7	13
15	Mechanical and thermodynamical properties of Cu-Al-Mn alloys along the Cu ₃ Al-Cu ₂ AlMn compositional line. <i>Solid State Communications</i> , 2020 , 319, 113980	1.6	5
14	Seismic upgrading of multistory steel moment-resisting frames by installing shape memory alloy braces: Design method and performance evaluation. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2596	4.5	3
13	Self-centering cable brace with friction devices for enhancing seismic performance of RC frame structures. <i>Engineering Structures</i> , 2020 , 207, 110187	4.7	13
12	A new self-centering brace with zero secondary stiffness using elastic buckling. <i>Journal of Constructional Steel Research</i> , 2020 , 169, 106035	3.8	18
11	Recent Advancements in Shape Memory Alloy Reinforced Metal Matrix Composites. 2021 , 1-26		
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9	Impact of self-centering brace type on the seismic fragility of reinforced concrete frames. <i>Structure and Infrastructure Engineering</i> , 1-12	2.9	
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5	Recent Advancements in Shape Memory Alloy Reinforced Metal Matrix Composites. 2021 , 639-664		
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3	Seismic collapse behavior of steel structures with a smart axial polyurethane friction damper. <i>Journal of Building Engineering</i> , 2022 , 48, 103839	5.2	

- 2 Investigation of Resilience of Eccentrically Braced Frames Equipped with Shape Memory Alloys. *Civil and Environmental Engineering Reports*, **2022**, 32, 176-190 0.6
- 1 Seismic Performance Assessment of Steel Frames Upgraded with Shape Memory Alloy Re-centering Dampers for Passive Protection of Structures Subjected to Seismic Excitations Using High-Performance NiTiHfPd Material. *Smart Materials and Structures*, 3.4