

# In-Tae Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

502  
citations

566801

15  
h-index

676716

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evaluation of shear buckling behaviors and strength of locally corroded web. Journal of Constructional Steel Research, 2013, 83, 75-89.	1.7	55
2	Residual compressive strength of inclined steel tubular members with local corrosion. Applied Ocean Research, 2016, 59, 498-509.	1.8	44
3	Residual shear strength of steel plate girder due to web local corrosion. Journal of Constructional Steel Research, 2013, 89, 198-212.	1.7	42
4	Clamping force loss of high-strength bolts as a result of bolt head corrosion damage: Experimental research A. Engineering Failure Analysis, 2016, 59, 509-525.	1.8	37
5	Shear buckling experiments of web panel with pitting and through-thickness corrosion damage. Journal of Constructional Steel Research, 2015, 115, 290-302.	1.7	34
6	Shear failure behaviors of a web panel with local corrosion depending on web boundary conditions. Thin-Walled Structures, 2013, 73, 302-317.	2.7	30
7	Synthesis and Thermo-chromic Properties of Cr-Doped Al <sub>2</sub> O <sub>3</sub> for a Reversible Thermo-chromic Sensor. Materials, 2017, 10, 476.	1.3	29
8	Tensile behaviors of friction bolt connection with bolt head corrosion damage: Experimental research B. Engineering Failure Analysis, 2016, 59, 526-543.	1.8	26
9	Effect of corrosion on the tension behavior of painted structural steel members. Journal of Constructional Steel Research, 2017, 133, 256-268.	1.7	23
10	Fatigue life evaluation of welded joints under combined normal and shear stress cycles. International Journal of Fatigue, 2005, 27, 695-701.	2.8	22
11	Detectability of Subsurface Defects with Different Width-to-Depth Ratios in Concrete Structures Using Pulsed Thermography. Journal of Nondestructive Evaluation, 2018, 37, 1.	1.1	21
12	A Method for Estimating Time-Dependent Corrosion Depth of Carbon and Weathering Steel Using an Atmospheric Corrosion Monitor Sensor. Sensors, 2019, 19, 1416.	2.1	20
13	Residual clamping force of bolt connections caused by sectional damage of nuts. Journal of Constructional Steel Research, 2017, 136, 204-214.	1.7	18
14	Synthesis and Irreversible Thermo-chromic Sensor Applications of Manganese Violet. Materials, 2018, 11, 1693.	1.3	17
15	Compressive strength evaluation of circular tubular short columns with locally corroded ends. Journal of Constructional Steel Research, 2018, 149, 31-40.	1.7	17
16	Fatigue strength improvement of longitudinal fillet welded out-of-plane gusset joints using air blast cleaning treatment. International Journal of Fatigue, 2013, 48, 289-299.	2.8	15
17	Fatigue Resistance Improvement of Welded Joints by Bristle Roll-Brush Grinding. International Journal of Steel Structures, 2018, 18, 1631-1638.	0.6	11
18	Residual Compressive Strength of Short Tubular Steel Columns with Artificially Fabricated Local Corrosion Damage. Materials, 2020, 13, 813.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Fatigue strength improvement of welded joints by blast cleaning for subsequent painting. International Journal of Steel Structures, 2013, 13, 11-20.	0.6	7
20	A Time-Dependent Corrosion Characteristic of a Steel Member in Contact with Concrete. International Journal of Steel Structures, 2018, 18, 976-992.	0.6	6
21	Evaluation of tensile strength of painted steel w/ local corrosion at structural connections. Journal of Constructional Steel Research, 2021, 177, 106449.	1.7	6
22	An approach for evaluating tensile strength of painted steel plates from the surface rusting grade. Corrosion Engineering Science and Technology, 2018, 53, 510-516.	0.7	5
23	A simple approach for evaluating the stress concentration factor of a corroded surface using the fast Fourier transform. Engineering Failure Analysis, 2020, 115, 104612.	1.8	3
24	Residual compressive strength of locally corroded intermediate tubular steel columns. Engineering Failure Analysis, 2022, 138, 106375.	1.8	3
25	Locally Corroded Stiffener Effect on Shear Buckling Behaviors of Web Panel in the Plate Girder. Advances in Materials Science and Engineering, 2015, 2015, 1-19.	1.0	2
26	Relationships between Imperfections and Shear Buckling Resistance in Web Plate with Sectional Damage Caused by Corrosion. Advances in Materials Science and Engineering, 2016, 2016, 1-12.	1.0	1