

# Adnan A Ahmed

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5431240/publications.pdf>

Version: 2024-02-01

24  
papers

1,055  
citations

516710

16  
h-index

713466

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	The theory of critical distances to predict static strength of notched brittle components subjected to mixed-mode loading. <i>Engineering Fracture Mechanics</i> , 2008, 75, 534-550.	4.3	205
2	On the use of the Theory of Critical Distances to predict static failures in ductile metallic materials containing different geometrical features. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4410-4421.	4.3	159
3	A unifying approach to estimate the high-cycle fatigue strength of notched components subjected to both uniaxial and multiaxial cyclic loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 391-411.	3.4	111
4	Multiaxial notch fatigue. , 2009, , .		75
5	Fatigue strength of additively manufactured polylactide (PLA): effect of raster angle and non-zero mean stresses. <i>International Journal of Fatigue</i> , 2019, 126, 319-326.	5.7	57
6	A material length scale-based methodology to assess static strength of notched additively manufactured polylactide (PLA). <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2071-2098.	3.4	48
7	On the fatigue strength of 3D-printed polylactide (PLA). <i>Procedia Structural Integrity</i> , 2018, 9, 29-36.	0.8	46
8	The Theory of Critical Distances to estimate the static strength of notched samples of Al6082 loaded in combined tension and torsion. Part II: Multiaxial static assessment. <i>Engineering Fracture Mechanics</i> , 2010, 77, 470-478.	4.3	45
9	On the notch fatigue strength of additively manufactured polylactide (PLA). <i>International Journal of Fatigue</i> , 2020, 136, 105583.	5.7	39
10	Intrinsic material length, Theory of Critical Distances and Gradient Mechanics: analogies and differences in processing linear-elastic crack tip stress fields. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 39-55.	3.4	38
11	Understanding cracked materials: is Linear Elastic Fracture Mechanics obsolete?. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 154-160.	3.4	36
12	Static assessment of plain/notched polylactide (PLA) 3D-printed with different infill levels: Equivalent homogenised material concept and Theory of Critical Distances. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 883-904.	3.4	36
13	The Theory of Critical Distances to estimate the static strength of notched samples of Al6082 loaded in combined tension and torsion. Part I: Material cracking behaviour. <i>Engineering Fracture Mechanics</i> , 2010, 77, 452-469.	4.3	30
14	Theory of Critical Distances versus Gradient Mechanics in modelling the transition from the short to long crack regime at the fatigue limit. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 861-869.	3.4	26
15	Assessing the integrity of steel structural components with stress raisers using the Theory of Critical Distances. <i>Engineering Failure Analysis</i> , 2016, 70, 73-89.	4.0	23
16	Notch static strength of additively manufactured acrylonitrile butadiene styrene (ABS). <i>Additive Manufacturing</i> , 2020, 34, 101212.	3.0	22
17	On the use of linear-elastic local stresses to design load-carrying fillet-welded steel joints against static loading. <i>Engineering Fracture Mechanics</i> , 2015, 136, 38-57.	4.3	17
18	Gradient elasticity: a transformative stress analysis tool to design notched components against uniaxial/multiaxial high-cycle fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 1012-1029.	3.4	14

#	ARTICLE	IF	CITATIONS
19	Applicability of strain energy density criterion for fracture prediction of notched PLA specimens produced via fused deposition modeling. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108103.	4.3	10
20	A generalised approach to rapid finite element design of notched materials against static loading using the Theory of Critical Distances. <i>Materials and Design</i> , 2016, 108, 769-779.	7.0	9
21	Reference strength values to design against static and fatigue loading polylactide additively manufactured with inâ€fill level equal to 100%. <i>Material Design and Processing Communications</i> , 2019, 1, e45.	0.9	5
22	Fuzzy inference system for failure strength estimation of plain and notched 3Dâ€printed polylactide components. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 1663-1677.	3.4	4
23	Guest editorial: special issueâ€IGF internationalâ€structural integrity. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 717-717.	3.4	0
24	Guest editorial: â€œManufacturing Influence on Fatigue Propertiesâ€• <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2211-2211.	3.4	0