

Majid Ayatollahi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2318036/majid-ayatollahi-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

372
papers

10,689
citations

59
h-index

88
g-index

386
ext. papers

12,567
ext. citations

3.3
avg, IF

7.16
L-index

#	Paper	IF	Citations
372	The role of T-stress in brittle fracture for linear elastic materials under mixed-mode loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2001 , 24, 137-150	3	391
371	ISRM-Suggested Method for Determining the Mode I Static Fracture Toughness Using Semi-Circular Bend Specimen. <i>Rock Mechanics and Rock Engineering</i> , 2014 , 47, 267-274	5.7	306
370	Geometry and size effects on fracture trajectory in a limestone rock under mixed mode loading. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 2200-2212	4.2	229
369	Effect of multi-walled carbon nanotube aspect ratio on mechanical and electrical properties of epoxy-based nanocomposites. <i>Polymer Testing</i> , 2011 , 30, 548-556	4.5	204
368	An improved semi-circular bend specimen for investigating mixed mode brittle fracture. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 110-123	4.2	200
367	On the use of Brazilian disc specimen for calculating mixed mode III fracture toughness of rock materials. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 4631-4641	4.2	195
366	Wide range data for crack tip parameters in two disc-type specimens under mixed mode loading. <i>Computational Materials Science</i> , 2007 , 38, 660-670	3.2	186
365	Mixed mode brittle fracture in PMMA—An experimental study using SCB specimens. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 417, 348-356	5.3	185
364	Brittle fracture in rounded-tip V-shaped notches. <i>Materials & Design</i> , 2010 , 31, 60-67		148
363	Fracture toughness study for a brittle rock subjected to mixed mode I/II loading. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2007 , 44, 617-624	6	145
362	Analysis of a new specimen for mixed mode fracture tests on brittle materials. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 1563-1573	4.2	142
361	Application of Cracked Triangular Specimen Subjected to Three-Point Bending for Investigating Fracture Behavior of Rock Materials. <i>Rock Mechanics and Rock Engineering</i> , 2013 , 46, 1023-1034	5.7	128
360	Determination of T-stress from finite element analysis for mode I and mixed mode I/II loading. <i>International Journal of Fracture</i> , 1998 , 91, 283-298	2.3	128
359	Mixed mode fracture resistance of asphalt concrete mixtures. <i>Engineering Fracture Mechanics</i> , 2012 , 93, 153-167	4.2	126
358	An over-deterministic method for calculation of coefficients of crack tip asymptotic field from finite element analysis. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011 , 34, 159-176	3	120
357	Typical Upper Bound—Lower Bound Mixed Mode Fracture Resistance Envelopes for Rock Material. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 65-74	5.7	116
356	Cracked asphalt pavement under traffic loading —A 3D finite element analysis. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 1817-1826	4.2	116

355	Fracture toughness of epoxy/multi-walled carbon nanotube nano-composites under bending and shear loading conditions. <i>Materials & Design</i> , 2011 , 32, 2115-2124		110
354	Geometry effects and statistical analysis of mode I fracture in guiting limestone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012 , 51, 128-135	6	109
353	Size-dependent fracture behavior of Guiting limestone under mixed mode loading. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 71, 369-380	6	109
352	Tensile fracture in notched polycrystalline graphite specimens. <i>Carbon</i> , 2010 , 48, 2255-2265	10.4	109
351	Rock fracture toughness study using cracked chevron notched Brazilian disc specimen under pure modes I and II loading \square A statistical approach. <i>Theoretical and Applied Fracture Mechanics</i> , 2014 , 69, 17-25	3.7	105
350	On determination of mode II fracture toughness using semi-circular bend specimen. <i>International Journal of Solids and Structures</i> , 2006 , 43, 5217-5227	3.1	104
349	Investigation of mixed mode brittle fracture in rounded-tip V-notched components. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 3087-3104	4.2	102
348	Two-parameter fracture analysis of SCB rock specimen under mixed mode loading. <i>Engineering Fracture Mechanics</i> , 2013 , 103, 115-123	4.2	95
347	Brittle failure of inclined key-hole notches in isostatic graphite under in-plane mixed mode loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 942-955	3	95
346	Tribological and mechanical properties of low content nanodiamond/epoxy nanocomposites. <i>Composites Part B: Engineering</i> , 2012 , 43, 3425-3430	10	93
345	Mixed mode brittle fracture of sharp and blunt V-notches in polycrystalline graphite. <i>Carbon</i> , 2011 , 49, 2465-2474	10.4	92
344	Mixed mode fracture in soda lime glass analyzed by using the generalized MTS criterion. <i>International Journal of Solids and Structures</i> , 2009 , 46, 311-321	3.1	89
343	Determination of NSIFs and coefficients of higher order terms for sharp notches using finite element method. <i>International Journal of Mechanical Sciences</i> , 2011 , 53, 164-177	5.5	83
342	A criterion for brittle fracture in U-notched components under mixed mode loading. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 1883-1896	4.2	83
341	Mixed mode I/II brittle fracture evaluation of marble using SCB specimen. <i>Procedia Engineering</i> , 2011 , 10, 311-318		79
340	Multiscale modeling for mechanical properties of carbon nanotube reinforced nanocomposites subjected to different types of loading. <i>Composite Structures</i> , 2011 , 93, 2250-2259	5.3	78
339	Geometry effects on fracture behaviour of polymethyl methacrylate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 526-530	5.3	78
338	Cracked Brazilian disc specimen subjected to mode II deformation. <i>Engineering Fracture Mechanics</i> , 2005 , 72, 493-503	4.2	78

337	Mechanical durability of an optimized polymer concrete under various thermal cyclic loadings [An experimental study. <i>Construction and Building Materials</i> , 2014 , 64, 308-315	6.7	77
336	Brittle fracture of sharp and blunt V-notches in isostatic graphite under torsion loading. <i>Carbon</i> , 2012 , 50, 1942-1952	10.4	77
335	Mixed mode fracture analysis of polycrystalline graphite [A modified MTS criterion. <i>Carbon</i> , 2008 , 46, 1302-1308	10.4	75
334	Mode I cracks subjected to large T-stresses. <i>International Journal of Fracture</i> , 2002 , 117, 159-174	2.3	75
333	Mixed mode brittle fracture in epoxy/multi-walled carbon nanotube nanocomposites. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 2620-2632	4.2	74
332	A generalized strain energy density criterion for mixed mode fracture analysis in brittle and quasi-brittle materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2015 , 79, 70-76	3.7	71
331	Determination of mode II fracture toughness for U-shaped notches using Brazilian disc specimen. <i>International Journal of Solids and Structures</i> , 2010 , 47, 454-465	3.1	71
330	Brittle fracture of sharp and blunt V-notches in isostatic graphite under pure compression loading. <i>Carbon</i> , 2013 , 63, 101-116	10.4	70
329	Single lap joints bonded with structural adhesives reinforced with a mixture of silica nanoparticles and multi walled carbon nanotubes. <i>International Journal of Adhesion and Adhesives</i> , 2018 , 80, 76-86	3.4	69
328	Experimental and Theoretical Assessment of Brittle Fracture in Engineering Components Containing a Sharp V-Notch. <i>Experimental Mechanics</i> , 2011 , 51, 919-932	2.6	69
327	Size and Geometry Effects on Rock Fracture Toughness: Mode I Fracture. <i>Rock Mechanics and Rock Engineering</i> , 2014 , 47, 677-687	5.7	68
326	Brittle Fracture Analysis Using a Ring-Shape Specimen Containing Two Angled Cracks. <i>International Journal of Fracture</i> , 2008 , 153, 63-68	2.3	68
325	Geometry effects on fracture trajectory of PMMA samples under pure mode-I loading. <i>Engineering Fracture Mechanics</i> , 2016 , 163, 449-461	4.2	68
324	Failure assessment of notched polycrystalline graphite under tensile-shear loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5685-5695	5.3	67
323	Analysis of fracture initiation angle in some cracked ceramics using the generalized maximum tangential stress criterion. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1877-1883	3.1	65
322	Mode I and Mode II Fracture Toughness Testing for a Coarse Grain Marble. <i>Applied Mechanics and Materials</i> , 2006 , 5-6, 181-188	0.3	64
321	On the consequences of T-stress in elastic brittle fracture. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 2415-2437	2.4	64
320	Delamination R-curve as a material property of unidirectional glass/epoxy composites. <i>Materials & Design</i> , 2012 , 34, 211-218		63

319	Size effects on fracture toughness of quasi-brittle materials [A new approach]. <i>Engineering Fracture Mechanics</i> , 2012 , 92, 89-100	4.2	63
318	Brittle fracture evaluation of a fine grain cement mortar in combined tensile-shear deformation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009 , 32, 987-994	3	63
317	Fracture assessment of Brazilian disc specimens weakened by blunt V-notches under mixed mode loading by means of local energy. <i>Materials & Design</i> , 2011 , 32, 2858-2869		61
316	Mechanical properties of adhesively single lap-bonded joints reinforced with multi-walled carbon nanotubes and silica nanoparticles 2017 , 93, 896-913		60
315	The Influence of Specimen Type on Tensile Fracture Toughness of Rock Materials. <i>Pure and Applied Geophysics</i> , 2017 , 174, 1237-1253	2.2	59
314	Fracture behavior of epoxy nanocomposites reinforced with different carbon nano-reinforcements. <i>Composite Structures</i> , 2013 , 95, 577-581	5.3	59
313	Mixed mode fatigue crack initiation and growth in a CT specimen repaired by stop hole technique. <i>Engineering Fracture Mechanics</i> , 2015 , 145, 115-127	4.2	58
312	A new fixture for fracture tests under mixed mode I/III loading. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 51, 67-76	3.7	57
311	Mode II fracture study of rocks using Brazilian disk specimens. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011 , 48, 819-826	6	56
310	Experimental evaluation of stress field around the sharp notches using photoelasticity. <i>Materials & Design</i> , 2011 , 32, 561-569		55
309	Experimental determination of tensile strength and K _I of polymer concretes using semi-circular bend (SCB) specimens. <i>Structural Engineering and Mechanics</i> , 2012 , 43, 823-833		55
308	Strength prediction of adhesively bonded single lap joints with different bondline thicknesses: A critical longitudinal strain approach. <i>International Journal of Solids and Structures</i> , 2017 , 109, 189-198	3.1	54
307	Mechanical and tribological properties of hydroxyapatite nanoparticles extracted from natural bovine bone and the bone cement developed by nano-sized bovine hydroxyapatite filler. <i>Ceramics International</i> , 2015 , 41, 10818-10827	5.1	54
306	Fracture resistance of asphalt concrete under different loading modes and temperature conditions. <i>Construction and Building Materials</i> , 2014 , 53, 235-242	6.7	54
305	Investigation of mechanical and tribological properties of bone cement by nano-indentation and nano-scratch experiments. <i>Polymer Testing</i> , 2012 , 31, 828-833	4.5	54
304	Stress Intensity Factors of Semi-Circular Bend Specimens with Straight-Through and Chevron Notches. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 1161-1172	5.7	53
303	Effect of reinforcements at different scales on mechanical properties of epoxy adhesives and adhesive joints: a review 2018 , 94, 1082-1121		52
302	On mixed-mode I/II crack growth in dental resin materials. <i>Scripta Materialia</i> , 2008 , 59, 258-261	5.6	50

301	Asphalt concrete resistance against fracture at low temperatures under different modes of loading. <i>Cold Regions Science and Technology</i> , 2015 , 110, 149-159	3.8	49
300	Experimental analysis of mixed mode crack propagation in brittle rocks: The effect of non-singular terms. <i>Engineering Fracture Mechanics</i> , 2014 , 129, 77-89	4.2	47
299	Experimental determination of stress field parameters in bi-material notches using photoelasticity. <i>Materials & Design</i> , 2011 , 32, 4901-4908		46
298	Retardation of fatigue crack growth in high strength steel S690 using a modified stop-hole technique. <i>Engineering Fracture Mechanics</i> , 2017 , 169, 226-237	4.2	44
297	Effects of Carbon Nanoreinforcements of Different Shapes on the Mechanical Properties of Epoxy-Based Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 670-678	3.9	43
296	Experimental verification of RV-MTS model for fracture in soda-lime glass weakened by a V-notch. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 2529-2534	1.6	43
295	Evaluation of first non-singular stress term in bi-material notches. <i>Computational Materials Science</i> , 2010 , 50, 752-760	3.2	42
294	Synergistic effects of hybrid MWCNT/nanosilica on the tensile and tribological properties of woven carbon fabric epoxy composites. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 96, 272-284	3.7	42
293	Mode I fracture initiation in limestone by strain energy density criterion. <i>Theoretical and Applied Fracture Mechanics</i> , 2012 , 57, 14-18	3.7	41
292	Fracture Analysis of Some Ceramics Under Mixed Mode Loading. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 561-569	3.8	40
291	Fatigue Life Extension by Crack Repair Using Stop-hole Technique under Pure Mode-I and Pure mode-II Loading Conditions. <i>Procedia Engineering</i> , 2014 , 74, 18-21		39
290	A modified MTS criterion (MMTS) for mixed-mode fracture toughness assessment of brittle materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5624-5630	5.3	39
289	Nano-/Microscale Investigation of Tribological and Mechanical Properties of Epoxy/MWNT Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 689-701	3.9	38
288	Finite element simulation of nano-indentation experiment on aluminum 1100. <i>Computational Materials Science</i> , 2014 , 81, 595-600	3.2	37
287	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. <i>Engineering Solid Mechanics</i> , 2017 , 113-132	1.3	36
286	Mode II Brittle Fracture Assessment Using ASFPB Specimen. <i>International Journal of Fracture</i> , 2009 , 159, 241-246	2.3	36
285	Mixed-mode fracture response of metallic fiber-reinforced epoxy adhesive. <i>European Journal of Mechanics, A/Solids</i> , 2017 , 65, 349-359	3.7	34
284	Effect of sintering temperature on mechanical and tribological properties of hydroxyapatite measured by nanoindentation and nanoscratch experiments. <i>Ceramics International</i> , 2014 , 40, 9159-9164	5.1	34

283	A numerical study on the effect of symmetric crack flank holes on fatigue life extension of a SENT specimen. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014 , 37, 1153-1164	3	34
282	Mechanical Behavior of Nanodiamond/Epoxy Nanocomposites. <i>International Journal of Fracture</i> , 2011 , 170, 95-100	2.3	34
281	Statistical Analysis of Rock Fracture Toughness Data Obtained from Different Chevron Notched and Straight Cracked Mode I Specimens. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 2095-2114	5.7	33
280	Compressive brittle fracture in V-notches with end holes. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 45, 32-40	3.7	33
279	Effects of temperature change and beverage on mechanical and tribological properties of dental restorative composites. <i>Materials Science and Engineering C</i> , 2015 , 54, 69-75	8.3	33
278	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. <i>Physical Mesomechanics</i> , 2015 , 18, 283-297	1.6	33
277	Fracture assessment of polyacrylonitrile nanofiber-reinforced epoxy adhesive. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 97, 448-453	3.7	33
276	Experimental fracture study of MWCNT/epoxy nanocomposites under the combined out-of-plane shear and tensile loading. <i>Polymer Testing</i> , 2017 , 59, 193-202	4.5	32
275	T-stress effects in mixed mode I/II/III brittle fracture. <i>Engineering Fracture Mechanics</i> , 2015 , 144, 32-45	4.2	32
274	Size effects in mode II brittle fracture of rocks. <i>Engineering Fracture Mechanics</i> , 2013 , 112-113, 165-180	4.2	32
273	Numerical Analyses of a Cracked Straight-Through Flattened Brazilian Disk Specimen under Mixed-Mode Loading. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 219-224	2.4	32
272	On the use of an anti-symmetric four-point bend specimen for mode II fracture experiments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011 , 34, 898-907	3	32
271	Calculation of for a multidirectional composite double cantilever beam on two-parametric elastic foundation. <i>Aerospace Science and Technology</i> , 2011 , 15, 534-543	4.9	32
270	3D Micromechanical Modeling of Failure and Damage Evolution in Dual Phase Steel Based on a Real 2D Microstructure. <i>Acta Mechanica Sinica</i> , 2016 , 29, 95-110	2	31
269	Temperature effects on brittle fracture in cracked asphalt concretes. <i>Structural Engineering and Mechanics</i> , 2013 , 45, 19-32		31
268	To reduce the maximum stress and the stress shielding effect around a dental implant-bone interface using radial functionally graded biomaterials. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 750-759	2.1	30
267	Crack-tip constraint in mode II deformation. <i>International Journal of Fracture</i> , 2002 , 113, 153-173	2.3	30
266	Theoretical and experimental investigation of brittle fracture in V-notched PMMA specimens under compressive loading. <i>Engineering Fracture Mechanics</i> , 2015 , 135, 187-205	4.2	29

265	Computation of stress intensity factors (KI, KII) and T-stress for cracks reinforced by composite patching. <i>Composite Structures</i> , 2007 , 78, 602-609	5.3	29
264	Assessment of Nano-Indentation Method in Mechanical Characterization of Heterogeneous Nanocomposite Materials Using Experimental and Computational Approaches. <i>Scientific Reports</i> , 2019 , 9, 15763	4.9	28
263	Mixed mode fracture in an inclined center crack repaired by composite patching. <i>Composite Structures</i> , 2007 , 81, 264-273	5.3	28
262	Failure load prediction of single lap adhesive joints based on a new linear elastic criterion. <i>Theoretical and Applied Fracture Mechanics</i> , 2015 , 80, 210-217	3.7	27
261	Local strain energy density to predict size-dependent brittle fracture of cracked specimens under mixed mode loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 86, 217-224	3.7	27
260	Brittle fracture assessment of engineering components in the presence of notches: a review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016 , 39, 267-291	3	27
259	Micromechanical analysis of two heat-treated dual phase steels: DP800 and DP980. <i>Mechanics of Materials</i> , 2017 , 110, 68-83	3.3	26
258	A comprehensive photoelastic study for mode I sharp V-notches. <i>European Journal of Mechanics, A/Solids</i> , 2013 , 37, 216-230	3.7	26
257	Fracture analysis of V-notched components [Effects of first non-singular stress term. <i>International Journal of Solids and Structures</i> , 2011 , 48, 1579-1589	3.1	26
256	The influence of in-plane raster angle on tensile and fracture strengths of 3D-printed PLA specimens. <i>Engineering Fracture Mechanics</i> , 2020 , 237, 107225	4.2	26
255	Fatigue performance of adhesively bonded single lap joints with non-flat sinusoid interfaces. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017 , 40, 1355-1363	3	25
254	Maximum tangential strain energy density criterion for general mixed mode I/II/III brittle fracture. <i>International Journal of Damage Mechanics</i> , 2015 , 24, 263-278	3	25
253	On the necessity of using critical distance model in mixed mode brittle fracture prediction of V-notched Brazilian disk specimens under negative mode II conditions. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 84, 38-48	3.7	25
252	Effects of multi-walled carbon nanotube and nanosilica on tensile properties of woven carbon fabric-reinforced epoxy composites fabricated using VARIM. <i>Journal of Composite Materials</i> , 2017 , 51, 4177-4188	2.7	24
251	Strength improvement of adhesively bonded single lap joints with date palm fibers: Effect of type, size, treatment method and density of fibers. <i>Composites Part B: Engineering</i> , 2020 , 188, 107874	10	24
250	A T-stress controlled specimen for mixed mode fracture experiments on brittle materials. <i>European Journal of Mechanics, A/Solids</i> , 2012 , 36, 83-93	3.7	24
249	The effect of Berkovich tip orientations on friction coefficient in nanoscratch testing of metals. <i>Tribology International</i> , 2016 , 103, 25-36	4.9	23
248	Effects of asphalt concrete characteristics on cohesive zone model parameters of hot mix asphalt mixtures. <i>Canadian Journal of Civil Engineering</i> , 2016 , 43, 226-232	1.3	23

247	Biomechanical analysis of functionally graded biomaterial disc in terms of motion and stress distribution in lumbar spine. <i>International Journal of Engineering Science</i> , 2014 , 84, 62-78	5.7	23
246	Tensile fracture analysis of a ductile polymeric material weakened by U-notches. <i>Polymer Testing</i> , 2017 , 64, 117-126	4.5	22
245	Experimental determination of the notch stress intensity factor for sharp V-notched specimens by using the digital image correlation method. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 103, 102244	2.7	22
244	An Energy-Based Concept for Yielding of Multidirectional FRP Composite Structures Using a Mesoscale Lamina Damage Model. <i>Polymers</i> , 2020 , 12,	4.5	22
243	Fracture study in notched ductile polymeric plates subjected to mixed mode I/II loading: Application of equivalent material concept. <i>European Journal of Mechanics, A/Solids</i> , 2018 , 70, 37-43	3.7	22
242	Mode I Fracture Analysis of Polymethylmetacrylate Using Modified Energy-Based Models. <i>Physical Mesomechanics</i> , 2015 , 18, 326-336	1.6	22
241	Fracture parameters for a cracked semi-circular specimen. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004 , 41, 20-25	6	22
240	Fracture behavior of GPPS brittle polymer under mixed mode I/III loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 91, 103-115	3.7	21
239	A synthesis of geometry effect on brittle fracture. <i>Engineering Fracture Mechanics</i> , 2018 , 187, 94-102	4.2	21
238	Effects of support friction on mode I stress intensity factor and fracture toughness in SENB testing. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 103, 102288	3.7	21
237	Digital image correlation method for calculating coefficients of Williams expansion in compact tension specimen. <i>Optics and Lasers in Engineering</i> , 2017 , 90, 26-33	4.6	21
236	Size effects on parameters of cohesive zone model in mode I fracture of limestone. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 588-605	3	21
235	On T-Stresses Near V-Notches. <i>International Journal of Fracture</i> , 2010 , 165, 121-126	2.3	21
234	Assessment of the fracture process zone in rocks using digital image correlation technique: The role of mode-mixity, size, geometry and material. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 646-666	3	21
233	Fracture tests under mixed mode I + III loading: An assessment based on the local energy. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 881-894	3	20
232	A constitutive material model for a commercial PMMA bone cement using a combination of nano-indentation test and finite element analysis. <i>Polymer Testing</i> , 2017 , 59, 328-335	4.5	20
231	Diffuse Interface Model to Investigate the Asphalt Concrete Cracking Subjected to Shear Loading at Low Temperature. <i>Journal of Cold Regions Engineering - ASCE</i> , 2017 , 31, 04016009	1.1	20
230	Application of digital image correlation method for determination of mixed mode stress intensity factors in sharp notches. <i>Optics and Lasers in Engineering</i> , 2020 , 124, 105830	4.6	20

229	A statistical approach on the support type effect on mode I fracture toughness determined using semi-circular bend (SCB) specimen. <i>Engineering Fracture Mechanics</i> , 2020 , 226, 106891	4.2	19
228	Mixed mode I/III brittle fracture in round-tip V-notches. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 83, 135-151	3.7	19
227	Kinking angles for interface cracks. <i>Procedia Engineering</i> , 2011 , 10, 325-329		19
226	Elastic-damage deformation response of fiber-reinforced polymer composite laminates with lamina interfaces. <i>Journal of Reinforced Plastics and Composites</i> , 2017 , 36, 832-849	2.9	18
225	Fatigue damage of cohesive interfaces in fiber-reinforced polymer composite laminates. <i>Composites Science and Technology</i> , 2019 , 183, 107779	8.6	18
224	Fatigue Life Extension by Crack Repair Using Double Stop-Hole Technique. <i>Materials Science Forum</i> , 2016 , 879, 3-8	0.4	18
223	An investigation on the strength of single lap adhesive joints with a wide range of materials and dimensions using a critical distance approach. <i>International Journal of Adhesion and Adhesives</i> , 2017 , 78, 248-255	3.4	18
222	Determination of Fracture Toughness of Bone Cement by Nano-Indentation Test. <i>International Journal of Fracture</i> , 2012 , 175, 193-198	2.3	18
221	Support Type Influence on Rock Fracture Toughness Measurement Using Semi-circular Bending Specimen. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 2175-2183	5.7	18
220	Fracture behavior of additively manufactured components: A review. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 109, 102763	3.7	18
219	A New Criterion for Rupture Assessment of Rubber-Like Materials under Mode-I Crack Loading: The Effective Stretch Criterion. <i>Advanced Engineering Materials</i> , 2016 , 18, 1364-1370	3.5	18
218	Mixed mode fracture analysis using generalized averaged strain energy density criterion for linear elastic materials. <i>International Journal of Solids and Structures</i> , 2017 , 120, 137-145	3.1	17
217	The tension-shear fracture behavior of polymeric bone cement modified with hydroxyapatite nano-particles. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 50-59	3.4	17
216	Fracture characterization of ceria partially stabilized zirconia using the GMTSN criterion. <i>Engineering Fracture Mechanics</i> , 2018 , 199, 647-657	4.2	17
215	A Photoelastic Study of T-stress in Centrally Cracked Brazilian Disc Specimen Under Mode II Loading. <i>Strain</i> , 2011 , 47, 268-274	1.7	17
214	Edge distance effects on residual stress distribution around a cold expanded hole in Al 2024 alloy. <i>Computational Materials Science</i> , 2009 , 45, 1134-1141	3.2	17
213	Elastic stress analysis of blunt V-notches under mixed mode loading by considering higher order terms. <i>Applied Mathematical Modelling</i> , 2020 , 78, 665-684	4.5	17
212	Brittle failure of key-hole notches under mixed mode I/II loading with negative mode I contributions. <i>Engineering Fracture Mechanics</i> , 2016 , 168, 51-72	4.2	17

211	An improved definition for mode I and mode II crack problems. <i>Engineering Fracture Mechanics</i> , 2017 , 175, 235-246	4.2	16
210	Mixed-mode (I/II) failure assessment of rubber materials using the effective stretch criterion. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 91, 126-133	3.7	16
209	An insight into mode II fracture toughness testing using SCB specimen. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 1991-1999	3	16
208	The effect of in-plane layer orientation on mixed-mode I-II fracture behavior of 3D-printed poly-carbonate specimens. <i>Engineering Fracture Mechanics</i> , 2020 , 231, 107018	4.2	16
207	Mechanical properties of structural adhesives enhanced with natural date palm tree fibers: Effects of length, density and fiber type. <i>Composite Structures</i> , 2020 , 237, 111950	5.3	16
206	Interlaminar fracture toughness of unidirectional DCB specimens: A novel theoretical approach. <i>Polymer Testing</i> , 2012 , 31, 68-75	4.5	16
205	Evaluation of crack tip constraint using photoelasticity. <i>International Journal of Pressure Vessels and Piping</i> , 2003 , 80, 665-670	2.4	16
204	Three-dimensional finite element modeling of a transverse top-down crack in asphalt concrete. <i>Computers and Concrete</i> , 2014 , 13, 569-585		16
203	Theory and experiment on true mode II fracturing of rocks. <i>Engineering Fracture Mechanics</i> , 2020 , 240, 107314	4.2	16
202	Size effects on mixed-mode fracture behavior of polygranular graphite. <i>Carbon</i> , 2016 , 103, 394-403	10.4	16
201	Mechanical behavior of an additively manufactured poly-carbonate specimen: tensile, flexural and mode I fracture properties. <i>Rapid Prototyping Journal</i> , 2019 , 26, 267-277	3.8	16
200	The finite element over-deterministic method to calculate the coefficients of crack tip asymptotic fields in anisotropic planes. <i>Engineering Fracture Mechanics</i> , 2020 , 231, 106982	4.2	15
199	Numerical investigation of stress intensity factor for semi-circular bend specimen with chevron notc. <i>Engineering Solid Mechanics</i> , 2015 , 3, 235-244	1.3	15
198	Experimental verification of two stress-based criteria for mixed mode I/III brittle fracture assessment of U-notched components. <i>Engineering Fracture Mechanics</i> , 2017 , 182, 229-244	4.2	14
197	Mixed mode I/II brittle fracture in V-notched Brazilian disk specimens under negative mode I conditions. <i>Physical Mesomechanics</i> , 2016 , 19, 332-348	1.6	14
196	T-Stress Effects on Isochromatic Fringe Patterns in Mode II. <i>International Journal of Fracture</i> , 2007 , 143, 189-194	2.3	14
195	Crack tip plastic zone under Mode I, Mode II and mixed mode (I+II) conditions. <i>Structural Engineering and Mechanics</i> , 2010 , 36, 575-598		14
194	Experimental and numerical analysis of cyclic aging in an epoxy-based adhesive. <i>Polymer Testing</i> , 2020 , 91, 106789	4.5	14

193	On the anisotropy of shear fracture toughness in rocks. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 113, 102946	3.7	14
192	On the use of the extended finite element and incremental methods in brittle fracture assessment of key-hole notched polystyrene specimens under mixed mode I/II loading with negative mode I contributions. <i>Archive of Applied Mechanics</i> , 2018 , 88, 587-612	2.2	14
191	Influence of Hydroxyapatite Nano-particles on the Mechanical and Tribological Properties of Orthopedic Cement-Based Nano-composites Measured by Nano-indentation and Nano-scratch Experiments. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3300-3306	1.6	13
190	Brittle Fracture analysis of blunt V-notches under compression. <i>International Journal of Solids and Structures</i> , 2015 , 67-68, 219-230	3.1	13
189	Fracture study of a ductile polymer-based nanocomposite weakened by blunt V-notches under mode I loading: Application of the Equivalent Material Concept. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 94, 26-33	3.7	13
188	A strain-based criterion for failure load prediction of steel/CFRP double strap joints. <i>Composite Structures</i> , 2018 , 206, 116-123	5.3	13
187	Correlation between aspect ratio of MWCNTs and mixed mode fracture of epoxy based nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6173-6178	5.3	13
186	Mode II brittle fracture assessment using an energy based criterion. <i>Physical Mesomechanics</i> , 2017 , 20, 142-148	1.6	12
185	Effect of notch length and pre-crack size on mode II fracture energy of brittle adhesives. <i>Engineering Fracture Mechanics</i> , 2019 , 212, 123-135	4.2	12
184	Preparation and characterisation of hydroxyapatite derived from natural bovine bone and PMMA/BHA composite for biomedical applications. <i>Materials Technology</i> , 2016 , 31, 448-453	2.1	12
183	Rupture analysis of rubber in the presence of a sharp V-shape notch under pure mode-I loading. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 405-415	5.5	12
182	Stress intensity factors for an axially oriented internal crack embedded in a buried pipe. <i>International Journal of Pressure Vessels and Piping</i> , 2010 , 87, 165-169	2.4	12
181	Photoelastic study of a center-cracked plate □The lateral load effects. <i>Computational Materials Science</i> , 2007 , 41, 168-176	3.2	12
180	Crack tip asymptotic fields in anisotropic planes: Importance of higher order terms. <i>Applied Mathematical Modelling</i> , 2021 , 91, 837-862	4.5	12
179	Ductile failure analysis of blunt V-notched epoxy resin plates subjected to combined tension-shear loading. <i>Polymer Testing</i> , 2018 , 70, 57-66	4.5	12
178	Analysis of stresses and displacements in the vicinity of blunt V-notches by considering higher order terms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 1760-1774	3	11
177	Mixed mode fracture characterization of brittle and semi-brittle adhesives using the SCB specimen. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 101, 102629	3.4	11
176	Energy-based assessment of brittle fracture in VO-notched polymer specimens under combined compression-shear loading conditions. <i>International Journal of Damage Mechanics</i> , 2019 , 28, 664-689	3	11

175	Fracture study in notched graphite specimens subjected to mixed mode I/II loading: Application of XFEM based on the cohesive zone model. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 99, 60-70	3.7	11
174	Application of adhesively bonded single lap joints for fracture assessment of adhesive materials 2019 , 95, 1-22		11
173	T-stress effects on fatigue crack growth □Theory and experiment. <i>Engineering Fracture Mechanics</i> , 2018 , 187, 103-114	4.2	11
172	Determination of higher order stress terms in cracked Brazilian disc specimen under mode I loading using digital image correlation technique. <i>Optics and Laser Technology</i> , 2018 , 107, 344-352	4.2	11
171	Rapid strain energy density evaluation for V-notches under mode I loading conditions. <i>Engineering Failure Analysis</i> , 2020 , 110, 104361	3.2	10
170	Characterization of Carbon Nanotube Based Composites under Consideration of Defects. <i>Advanced Structured Materials</i> , 2016 ,	0.6	10
169	Mixed mode II/III fracture experiments on PMMA using a new test configuration. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103812	3.7	10
168	Numerical analysis of an improved DCDC specimen for investigating mixed mode fracture in ceramic materials. <i>Computational Materials Science</i> , 2009 , 46, 180-185	3.2	10
167	On mixed mode loading of a single edge notched specimen. <i>International Journal of Fracture</i> , 1996 , 82, R61-R66	2.3	10
166	Micro failure analysis of adhesively bonded joints enhanced with natural cork particles: Impact of overlap length and particles volume fraction. <i>Frattura Ed Integrita Strutturale</i> , 2018 , 12, 266-274	0.9	10
165	Comprehensive data for stress intensity factor and critical crack length in chevron notched semi-circular bend specimen subjected to tensile type fracture mode. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 106, 102466	3.7	10
164	Introduction of a Scaling Factor for Fracture Toughness Measurement of Rocks Using the Semi-circular Bend Test. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 4041-4058	5.7	10
163	Mixed mode II Fracture prediction of blunt V-notched nanocomposite specimens with nonlinear behavior by means of the Equivalent Material Concept. <i>Composites Part B: Engineering</i> , 2018 , 154, 363-373	10	10
162	Assessment of Compressive Mechanical Behavior of Bis-GMA Polymer Using Hyperelastic Models. <i>Polymers</i> , 2019 , 11,	4.5	9
161	Strength improvement in single lap adhesive joints by notching the adherends. <i>International Journal of Adhesion and Adhesives</i> , 2019 , 95, 102401	3.4	9
160	Crack tip asymptotic field and K-dominant region for anisotropic semi-circular bend specimen. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 109, 102640	3.7	9
159	Effect of residual strains on the static strength of dissimilar single lap adhesive joints 2020 , 1-20		9
158	The application of strain energy density criterion to fatigue crack growth behavior of cracked components. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 97, 440-447	3.7	9

157	Elastic-plastic fracture assessment of CNT-reinforced epoxy/nanocomposite specimens weakened by U-shaped notches under mixed mode loading. <i>Composites Part B: Engineering</i> , 2019 , 176, 107114	10	9
156	Nano-Indentation Measurement of Fracture Toughness of Dental Enamel. <i>International Journal of Fracture</i> , 2013 , 183, 113-118	2.3	9
155	Mixed Mode Brittle and Ductile Fracture of a High Strength Rotor Steel at Room Temperature. <i>International Journal of Fracture</i> , 1998 , 94, 235-250	2.3	9
154	Characterization of 3D-printed PLA parts with different raster orientations and printing speeds.. <i>Scientific Reports</i> , 2022 , 12, 1016	4.9	9
153	Numerical and Experimental Investigations of Mixed Mode Fracture in Granite Using Four-Point-Bend Specimen 2009 , 275-283		9
152	A comprehensive experimental study on bi-adhesive single lap joints using DIC technique. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 102, 102674	3.4	9
151	Averaged strain energy density criterion for rupture assessment of cracked rubbers: A novel method for determination of critical SED. <i>Engineering Fracture Mechanics</i> , 2018 , 190, 93-103	4.2	9
150	The role of T-stress and stress triaxiality combined with the geometry on tensile fracture energy of brittle adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2018 , 87, 12-21	3.4	9
149	Brittle failure of PMMA in the presence of blunt V-notches under combined tension-tear loading: Experiments and stress-based theories. <i>Polymer Testing</i> , 2018 , 72, 94-109	4.5	9
148	DEM investigation on fracture mechanism of the CCNSCB specimen under intermediate dynamic loading. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	8
147	Impact of geometry on the critical values of the stress intensity factor of adhesively bonded joints. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 2071-2087	2	8
146	On Fracture Analysis of Cracked Graphite Components under Mixed Mode Loading. <i>Mechanics of Advanced Materials and Structures</i> , 2014 , 21, 781-791	1.8	8
145	FINITE ELEMENT ANALYSIS OF A SEMI-ELLIPTICAL EXTERNAL CRACK IN A BURIED PIPE. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2009 , 33, 399-409	1.1	8
144	Finite Element Analysis of a New Test Specimen for Investigating Mixed Mode Cracks in Asphalt Overlays 2012 , 359-367		8
143	Predictions of fracture load, crack initiation angle, and trajectory for V-notched Brazilian disk specimens under mixed mode I/II loading with negative mode I contributions. <i>International Journal of Damage Mechanics</i> , 2018 , 27, 1173-1191	3	8
142	Asymptotic stress field and the coefficients of singular and higher order terms for V-notches with end holes under mixed-mode loading. <i>International Journal of Solids and Structures</i> , 2019 , 172-173, 51-69 ^{3.1}		7
141	Prediction of friction coefficients in nanoscratch testing of metals based on material flow lines. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 94, 186-196	3.7	7
140	Effects of different indentation methods on fatigue life extension of cracked specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018 , 41, 287-299	3	7

139	Equivalent cone apex angle of Berkovich indenter in face-forward and edge-forward nanoscratch. <i>Wear</i> , 2016 , 356-357, 53-65	3.5	7
138	Improved stress and displacement fields around V-notches with end holes. <i>Engineering Fracture Mechanics</i> , 2019 , 217, 106539	4.2	7
137	Mixed-mode fracture in EPDM/SBR/nanoclay rubber composites: An experimental and theoretical investigation. <i>Composites Part B: Engineering</i> , 2019 , 176, 107312	10	7
136	Comprehensive notch shape factors for V-notched Brazilian disk specimens loaded under mixed mode I/II from pure opening mode to pure closing mode. <i>Archive of Applied Mechanics</i> , 2017 , 87, 299-313 ²⁻²		7
135	Bond strength of a nano-composite used for bonding ceramic orthodontic brackets. <i>Materials & Design</i> , 2013 , 51, 902-906		7
134	On higher order parameters in cracked composite plates under far-field pure shear. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 568-585	3	7
133	Experimental and theoretical fracture analyses for three biomaterials with dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 103, 103612	4.1	7
132	On the application of the volume free strain energy density method to blunt V-notches under mixed mode condition. <i>Engineering Structures</i> , 2021 , 230, 111716	4.7	7
131	Effects of a Nano-composite Adhesive on Mechanical Properties of Tooth Enamel After Removing Orthodontics Bracket [An Experimental Study Using Nano-indentation Test. <i>Experimental Mechanics</i> , 2015 , 55, 1769-1777	2.6	6
130	On the evaluation of a critical distance approach for failure load prediction of adhesively bonded dissimilar materials. <i>Continuum Mechanics and Thermodynamics</i> , 2020 , 32, 1647-1657	3.5	6
129	The effect of orientations of metal macrofiber reinforcements on mechanical properties of adhesively bonded single lap joints 2018 , 94, 541-561		6
128	Mode II fracture tests on asphalt concrete at different temperatures using semi-circular bend specimen loaded by various types of supports. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 116, 103089	3.7	6
127	On the fracture behavior of polyurethane notched components. <i>Procedia Structural Integrity</i> , 2017 , 3, 144-152	1	5
126	V-notches subjected to combined tension and torsion loadings: the application of the fictitious notch rounding concept. <i>Engineering Fracture Mechanics</i> , 2015 , 148, 82-96	4.2	5
125	Mixed mode I/III fracture behavior of adhesive joints. <i>International Journal of Solids and Structures</i> , 2020 , 199, 109-119	3.1	5
124	In-situ brittle fracture analysis of sharp V-notched components using digital image correlation. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 106, 102484	3.7	5
123	Biomechanical analysis of a radial functionally graded dental implantBone system under multi-directional dynamic loads. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018 , 40, 1	2	5
122	A novel test configuration designed for investigating mixed mode II/III fracture. <i>Engineering Fracture Mechanics</i> , 2018 , 197, 248-258	4.2	5

121	Rock Fracture Toughness Under Mode II Loading: A Theoretical Model Based on Local Strain Energy Density. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 243-253	5.7	5
120	Computation of V-notch shape factors in four-point bend specimen for fracture tests on brittle materials. <i>Archive of Applied Mechanics</i> , 2013 , 83, 345-356	2.2	5
119	Fracture parameters for a cracked semi-circular specimen. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004 , 41, 356	6	5
118	Experimental investigation on tribological properties of carbon fabric composites: effects of carbon nanotubes and nano-silica. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 874-884	1.3	5
117	A comparative finite element analysis of two types of axial and radial functionally graded dental implants with titanium one around implant-bone interface. <i>Science and Engineering of Composite Materials</i> , 2017 , 24, 747-754	1.5	4
116	Mechanical behaviour of hot dip galvanized steel connection under cyclic loading. <i>Procedia Structural Integrity</i> , 2017 , 3, 77-84	1	4
115	3D fracture behaviour of graphite specimens weakened by V- notches with end holes under mixed mode (I+II) loading. <i>Engineering Failure Analysis</i> , 2019 , 104, 682-689	3.2	4
114	Failure load analysis in single lap joints - effect of adherend notching. <i>Engineering Failure Analysis</i> , 2019 , 104, 75-83	3.2	4
113	Experimental fracture investigation of CNT/epoxy nanocomposite under mixed mode II/III loading conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 879-892	3	4
112	Residual static strength and the fracture initiation path in adhesively bonded joints weakened with interfacial edge pre-crack. <i>Journal of Adhesion Science and Technology</i> , 2018 , 32, 2019-2040	2	4
111	Mixed-mode fracture of synthesized nanocrystalline forsterite for biomedical applications. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 94, 173-180	3.7	4
110	Mixed-mode (I/II) rupture assessment of rubber-like materials weakened by cracks using the averaged strain energy density criterion. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 97, 314-321	3.7	4
109	Some methods for rapid evaluation of the mixed mode NSIFs. <i>Procedia Structural Integrity</i> , 2017 , 3, 126-134		4
108	Predicting static strength in adhesively bonded single lap joints using a critical distance based method: Substrate thickness and overlap length effects. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2017 , 231, 237-246	1.3	4
107	Investigation of Fracture in an Interface Crack Between Bone Cement and Stainless Steel. <i>Latin American Journal of Solids and Structures</i> , 2015 , 12, 446-460	1.4	4
106	Effects of crack tip blunting and residual stress on a warm pre-stressed crack specimen. <i>Computational Materials Science</i> , 2006 , 37, 393-400	3.2	4
105	Effect of Constraint on the Initiation of Ductile Fracture in Shear Loading. <i>Key Engineering Materials</i> , 2004 , 261-263, 183-188	0.4	4
104	Modal analysis of shell of revolution on elastic foundation. <i>International Journal of Pressure Vessels and Piping</i> , 1993 , 56, 351-368	2.4	4

103	On the use of digital image correlation method for determining the stress field at blunt V-notch neighborhood. <i>Engineering Fracture Mechanics</i> , 2020 , 223, 106768	4.2	4
102	Mode II fracture energy characterization of brittle adhesives using compliance calibration method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1928-1937	3	4
101	Assessment of fatigue crack growth behavior of cracked specimens repaired by indentation. <i>Procedia Structural Integrity</i> , 2018 , 13, 69-73	1	4
100	Effect of support type on the fracture toughness and energy of asphalt concrete at different temperature conditions. <i>Engineering Fracture Mechanics</i> , 2021 , 254, 107921	4.2	4
99	Fatigue behaviour of notched specimens made of 40CrMoV13.9 under multiaxial loading. <i>Procedia Structural Integrity</i> , 2017 , 3, 85-92	1	3
98	Crack growth onset in thin aluminum sheets under mixed mode I/II loading: A new form of the Equivalent Material Concept. <i>Thin-Walled Structures</i> , 2019 , 144, 106337	4.7	3
97	Fracture analysis of a dental restorative bio-composite using a strain-based fracture model. <i>Materials Today: Proceedings</i> , 2019 , 7, 545-551	1.4	3
96	Influence of microcork particles on the lap shear strength of an epoxy adhesive subjected to fatigue loading and different environmental conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020 , 234, 851-858	1.3	3
95	Elastic-plastic damage prediction in notched epoxy resin specimens under mixed mode I/II loading using two virtual linear elastic failure criteria. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 1100-1116	3	3
94	Mode III Notch Fracture Toughness Assessment for Various Notch Features. <i>Physical Mesomechanics</i> , 2018 , 21, 320-332	1.6	3
93	Experimental and numerical investigations of fracture behavior of magnetostrictive materials. <i>Procedia Structural Integrity</i> , 2017 , 3, 153-161	1	3
92	Mechanical behavior of hot-dip galvanized welded steel under cyclic loading. <i>Procedia Structural Integrity</i> , 2017 , 3, 135-143	1	3
91	Some recent criteria for brittle fracture prediction under in-plane shear loading. <i>Procedia Structural Integrity</i> , 2017 , 3, 110-118	1	3
90	Fracture Assessment of Blunt V-Notches under Prevalent Mode II Loading by Means of Local Energy. <i>Procedia Engineering</i> , 2011 , 10, 350-355		3
89	Finite element evaluation of punch-type crack specimens. <i>International Journal of Pressure Vessels and Piping</i> , 2005 , 82, 722-728	2.4	3
88	A Comprehensive Study on Crack Tip Parameters of Modified Ring Specimen for Mixed-Mode Fracture Toughness Tests on Brittle Materials. <i>Geotechnical Testing Journal</i> , 2016 , 39, 20150071	1.3	3
87	Critical Load Prediction in Notched E/Glass-Epoxy-Laminated Composites Using the Virtual Isotropic Material Concept Combined with the Average Strain Energy Density Criterion. <i>Polymers</i> , 2021 , 13,	4.5	3
86	Mixed mode fracture analysis in a ductile adhesive using semi-circular bend (SCB) specimen. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 112, 102927	3.7	3

85	Effect of Dental Restorative Material Type and Shade on Characteristics of Two-Layer Dental Composite Systems. <i>Latin American Journal of Solids and Structures</i> , 2016 , 13, 1851-1865	1.4	3
84	Effect of interface non-flatness on the fatigue behavior of adhesively bonded single lap joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1277-1286	1.3	3
83	Prediction of the critical stress intensity factor of single-lap adhesive joints using a coupled ratio method and an analytical model. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1393-1403	1.3	3
82	Tribological Properties of Dental Enamel Before and After Orthodontic Bracket Bonding-Debonding by Nano-Scratch Test. <i>Journal of Mechanics</i> , 2019 , 35, 279-287	1	3
81	Limit curves for brittle fracture in key-hole notches under mixed mode I/III loading based on stress-based criteria. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 85, 104089	3.7	3
80	A new unified asymptotic stress field solution for blunt and sharp notches subjected to mixed mode loading. <i>International Journal of Mechanical Sciences</i> , 2021 , 193, 106176	5.5	3
79	Effect of printing speed on tensile and fracture behavior of ABS specimens produced by fused deposition modeling. <i>Engineering Fracture Mechanics</i> , 2022 , 266, 108393	4.2	3
78	Influence of Date Palm Tree Fibers on the Tensile Fracture Energy of an Epoxy-based Adhesive. <i>Journal of Natural Fibers</i> , 1-17	1.8	3
77	Multiaxial fracture of graphite components: a review of recent results. <i>Procedia Structural Integrity</i> , 2017 , 3, 68-76	1	2
76	Fracture study of MWCNT/epoxy nanocomposite under pure mode III loading using anti-symmetric four-point bend specimen. <i>Material Design and Processing Communications</i> , 2019 , 1, e77	0.9	2
75	Evolution of Crack Tip Constraint in a Mode II Elastic-Plastic Crack Problem. <i>Physical Mesomechanics</i> , 2018 , 21, 173-177	1.6	2
74	Mechanical Properties of Biomaterials Determined by Nano-Indentation and Nano-Scratch Tests. <i>Solid Mechanics and Its Applications</i> , 2014 , 189-207	0.4	2
73	Fatigue behavior of innovative alloys at elevated temperature. <i>Procedia Structural Integrity</i> , 2017 , 3, 162-167		2
72	Brittle or Quasi-Brittle Fracture of Engineering Materials: Recent Developments and New Challenges. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-2	1.5	2
71	ISRM-Suggested Method for Determining the Mode I Static Fracture Toughness Using Semi-Circular Bend Specimen 2013 , 107-114		2
70	Effects of mixed contents of carbon nanoreinforcements on the impact resistance of epoxy-based nanocomposites. <i>Structural Engineering and Mechanics</i> , 2015 , 56, 157-167		2
69	Higher order stress terms in sharp notch problems under pure-out-of-plane loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022 , 45, 500	3	2
68	New formulation for vibration analysis of Timoshenko beam with double-sided cracks. <i>Structural Engineering and Mechanics</i> , 2010 , 34, 475-490		2

67	Fracture Behavior of Two Biopolymers Containing Notches: Effects of Notch Tip Plasticity. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8445	2.6	2
66	Theory of critical distance combined with the generalized strain energy density criterion for mixed mode fracture assessment of PMMA dental materials. <i>Procedia Structural Integrity</i> , 2020 , 28, 829-835	1	2
65	Towards pure mode I loading in dissimilar adhesively bonded double cantilever beams. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 107, 102826	3.4	2
64	Effects of impact fatigue on residual static strength of adhesively bonded joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 1519-1531	1.3	2
63	Crack path stability in brittle fracture under pure mode I loading. <i>Procedia Structural Integrity</i> , 2018 , 13, 735-740	1	2
62	Fatigue assessment of steel rollers using an energy based criterion. <i>Procedia Structural Integrity</i> , 2017 , 3, 93-101	1	1
61	Mechanical Behaviour of PMMA Bio-polymer Loaded by Nano-scale Additives. <i>Advanced Structured Materials</i> , 2019 , 209-224	0.6	1
60	Mechanical Characterization of Heterogeneous Polycrystalline Rocks Using Nanoindentation Method in Combination with Generalized Means Method. <i>Journal of Mechanics</i> , 2020 , 36, 813-823	1	1
59	Geometry effect on fracture behavior of V-notched specimens. <i>Procedia Structural Integrity</i> , 2020 , 26, 234-239	1	1
58	Fracture assessment of U-notched graphite specimens by means of cohesive zone model. <i>Procedia Structural Integrity</i> , 2020 , 26, 251-255	1	1
57	Fracture Behavior of Asphalt Materials. <i>Structural Integrity</i> , 2020 ,	0.2	1
56	A new geometry for improving the strength of single lap joints using adherend notching technique 2020 , 1-20		1
55	Mixed mode crack tip parameters for different wheel positions relative to a vertical crack at the rail foot. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018 , 41, 1771-1783	3	1
54	CNT-Based Nanocomposites. <i>Advanced Structured Materials</i> , 2016 , 117-175	0.6	1
53	Numerical Evaluation of T-stress under Mixed Mode Loading Through the Use of Coarse Meshes. <i>Physical Mesomechanics</i> , 2018 , 21, 124-134	1.6	1
52	Fracture Assessment of Inclined Double Keyhole Notches in Isostatic Graphite. <i>Physical Mesomechanics</i> , 2018 , 21, 110-116	1.6	1
51	Computer Simulation and Experimental Analysis of Nanoindentation Technique 2017 , 579-600		1
50	Non-localized creep assessment of V-notched components: a review. <i>Procedia Structural Integrity</i> , 2017 , 3, 102-109	1	1

49	The effect of residual stress on fatigue behavior of V-notched components: a review. <i>Procedia Structural Integrity</i> , 2017 , 3, 119-125	1	1
48	A new model for the artificial aorta blood vessels using double-sided radial functionally graded biomaterials. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 859-871	3.1	1
47	A Method for Calculating T-Stress in Mixed Mode Problems. <i>Key Engineering Materials</i> , 1997 , 145-149, 83-88	0.4	1
46	Finite Element Analysis of an Improved Center Crack Specimen. <i>Key Engineering Materials</i> , 2007 , 347, 441-446	0.4	1
45	Finite element analysis of a center crack specimen warm pre-stressed under different modes of loading. <i>Computational Materials Science</i> , 2007 , 38, 847-856	3.2	1
44	Effects of lateral load on warm prestressing in a center crack plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 441, 170-175	5.3	1
43	On Biaxially Loaded Internal Cracks. <i>International Journal of Fracture</i> , 2001 , 109, 9-14	2.3	1
42	Influence of cyclic aging on adhesive mode mixity in dissimilar composite/metal double cantilever beam joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 146442072210746	1.3	1
41	Geometry effects on mode I brittle fracture in U-notched specimens. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 901-915	3	1
40	Brittle fracture analysis of the offset-crack DCDC specimen. <i>Structural Engineering and Mechanics</i> , 2008 , 29, 301-310		1
39	Investigating the effect of printing speed and mode mixity on the fracture behavior of FDM-ABS specimens. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 118, 103223	3.7	1
38	In-situ optical approach to predict mixed mode fracture in a polymeric biomaterial. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 118, 103211	3.7	1
37	CNT/FRP Composites. <i>Advanced Structured Materials</i> , 2016 , 177-217	0.6	1
36	Crack bifurcation in sharp V-notches. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 110, 102790	3.7	1
35	Brittle or Quasi-Brittle Fracture of Engineering Materials 2016. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-2	1.5	1
34	Fracture assessment of graphite components weakened by rounded V-notches and subjected to static multiaxial loading. <i>Procedia Structural Integrity</i> , 2016 , 2, 1805-1812	1	1
33	Fracture analysis of rounded-tip V-notched components made of rubber-like materials using averaged strain energy density criterion. <i>Procedia Structural Integrity</i> , 2019 , 21, 12-20	1	1
32	To study the effects of nano-additives and nano-indentation variables on viscoplastic behaviour of a polymeric orthopaedic bone cement. <i>Materials Research Express</i> , 2019 , 6, 125422	1.7	1

31	Mechanical and Electrical Properties of Multiwalled Carbon Nanotube Nanocomposites with Different Resin Matrices. <i>Physical Mesomechanics</i> , 2021 , 24, 219-224	1.6	1
30	Crack tip fields in anisotropic planes: a review. <i>International Journal of Fracture</i> ,1	2.3	1
29	Mixed mode fracture behavior of short-particle engineered wood. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 115, 103054	3.7	1
28	An analytical stress field for bi-material V-notches with end hole: New solution and effects of higher order terms. <i>Mathematics and Mechanics of Solids</i> ,108128652210843	2.3	1
27	Rupture assessment of rubber/clay nanocomposites containing a crack by means of an energy-based fracture criterion. <i>Archives of Civil and Mechanical Engineering</i> , 2019 , 19, 1458-1467	3.4	0
26	Effect of friction at the supports of semi-circular bending tests on fracture mode of loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 118, 103265	3.7	0
25	Fracture testing and estimation of critical loads in a PMMA-based dental material with nonlinear behavior in the presence of notches. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 103282	3.7	0
24	On the role of fracture process zone size in specifying fracturing mechanism under dominant mode II loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 117, 103150	3.7	0
23	Mixed mode I/II crack propagation in stainless steel 316L sheets by large plastic deformations: Prediction of critical load by combining LEFM with fictitious material concept. <i>Engineering Fracture Mechanics</i> , 2021 , 247, 107657	4.2	0
22	On Suitability of the Averaged Strain Energy Density Criterion in Predicting Mixed Mode I/II Brittle Fracture of Blunt V-Notches with Negative Mode I Contributions. <i>Strength of Materials</i> , 2019 , 51, 770-785	0.6	0
21	On the use of the Fictitious Material Concept in estimating the ultimate load of keyhole notched AA6061-T6 specimens under large tension-torsion deformations. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 488-504	3	0
20	Effects of particle distribution and calculation method on results of nano-indentation technique in heterogeneous nanocomposites-experimental and numerical approaches. <i>International Journal of Solids and Structures</i> , 2021 , 225, 111054	3.1	0
19	U-notch fracture in additively manufactured ABS specimens under symmetric three-point bending. <i>Theoretical and Applied Fracture Mechanics</i> , 2022 , 119, 103318	3.7	0
18	Size effect in true mode II fracturing of rocks: Theory and experiment. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 94, 104593	3.7	0
17	True Mode III Fracturing of Rocks: An Axially Double-Edge Notched Brazilian Disk Test. <i>Rock Mechanics and Rock Engineering</i> ,1	5.7	0
16	A numerical study on the effect of geometrical parameters and loading profile on the expansion of stent. <i>Bio-Medical Materials and Engineering</i> , 2017 , 28, 463-476	1	
15	Assessment of mixed mode fatigue crack growth under biaxial loading using an iterative technique. <i>Procedia Structural Integrity</i> , 2020 , 26, 240-245	1	
14	Compressive Brittle Fracture Prediction in Blunt V-Notched PMMA Specimens by Means of the Strain Energy Density Approach. <i>Physical Mesomechanics</i> , 2018 , 21, 104-109	1.6	

- 13 Nanocomposites. *Advanced Structured Materials*, **2016**, 65-115 0.6
- 12 Recent Developments in Brittle and Quasi-Brittle Failure Assessment of Graphite by Means of SED. *Key Engineering Materials*, **2013**, 577-578, 25-28 0.4
- 11 The Effect of Hygrothermal Composite Patch on the Fracture of Reinforced Crack under Mixed-Mode Loading. *Applied Mechanics and Materials*, **2006**, 5-6, 189-196 0.3
- 10 Experimental Investigation of T-Stress Effects on Photoelastic Fringes in Brazilian Disk under Mode II Conditions. *Key Engineering Materials*, **2007**, 348-349, 969-972 0.4
- 9 Numerical Studies on Asphalt Concretes. *Structural Integrity*, **2020**, 17-76 0.2
- 8 Application of Nonlinear Fracture Mechanics in Asphalt Concretes. *Structural Integrity*, **2020**, 181-204 0.2
- 7 Predictions of Mixed Mode I/II Fracture Toughness for Soft Rocks **2006**, 1173-1174
- 6 Fracture Behavior of HMA Concretes at Low Temperatures. *Structural Integrity*, **2020**, 77-156 0.2
- 5 OS12-14 Experimental Study of Brittle Fracture for Epoxy/MWCNT Nano-Composites under Out-of-Plane Loading (Mechanical properties of nano- and micro-materials-4, OS12 Mechanical properties of nano- and micro-materials, MICRO AND NANO MECHANICS). *The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Fracture analysis of V-notched rubbers: An experimental and theoretical study. Fatigue and Fracture of Engineering Materials and Structures*, **2019**, 42, 732-742 0
- 4 On the prediction of the stress field in adhesive joints using a combined analytical-numerical method. *International Journal of Adhesion and Adhesives*, **2022**, 116, 103151 3
- 3 Damage characterization of dental nanocomposite adhesive in orthodontic treatment applications. *International Journal of Damage Mechanics*, 105678952210880 3
- 2 Tensile-Tearing Fracture Analysis of U-Notched Spruce Samples. *Materials*, **2022**, 15, 3661 3.5
- 1