Indra Vir Singh

List of Publications by Year
in descending order

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174 papers	4,526 citations	94381 37 h-index	155592 55 g-index
175 all docs	175 docs citations	175 times ranked	2021 citing authors

#	Article	IF	Citations
1	Effect of Specimen Thickness on Threshold Stress Intensity Factor (K IH) Associated with DHC in Zr-2.5 Nb Alloy Pressure Tube Material. Materials Performance and Characterization, 2022, 11, 301-314.	0.2	0
2	Combined effect of residual and mean stresses on fatigue behavior of welded aluminum 2024 alloy. International Journal of Fatigue, 2022, 155, 106565.	2.8	17
3	A localizing gradient plasticity model for ductile fracture. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114205.	3.4	13
4	Electro-Elastic Analysis of Edge Dislocation Dipole in GaN Using XFEM. Lecture Notes in Mechanical Engineering, 2022, , 141-151.	0.3	0
5	Low Cycle Fatigue Analysis of High-Strength Aluminum Alloy 2024. Lecture Notes in Mechanical Engineering, 2022, , 211-223.	0.3	0
6	A new framework based on XFEM to study the role of electrostatic tractions in semipermeable piezoelectric material. Engineering Fracture Mechanics, 2022, 266, 108398.	2.0	12
7	A computational framework based on FEA, ML and GA for estimation of welding residual stresses. Finite Elements in Analysis and Design, 2022, 205, 103753.	1.7	7
8	Nonlinear thermo-elastic analysis of edge dislocations with Internal Heat Generation in Semiconductor Materials. Mechanics of Materials, 2022, 169, 104322.	1.7	9
9	A Microstructure Based Elasto-Plastic Polygonal FEM and CDM Approach to Evaluate LCF Life in Titanium Alloys. International Journal of Mechanical Sciences, 2022, 225, 107356.	3.6	8
10	A simple and efficient implementation of localizing gradient damage method in COMSOL for fracture simulation. Engineering Fracture Mechanics, 2022, 269, 108552.	2.0	13
11	Thermo-elastic analysis of edge dislocation using extended finite element method. International Journal of Mechanical Sciences, 2021, 192, 106109.	3.6	13
12	A Strain-based continuum damage model for low cycle fatigue under different strain ratios. Engineering Fracture Mechanics, 2021, 242, 107479.	2.0	17
13	Extended isogeometric analysis for fracture in functionally graded magneto-electro-elastic material. Engineering Fracture Mechanics, 2021, 247, 107640.	2.0	38
14	A non-intrusive stochastic phase field method for crack propagation in functionally graded materials. Acta Mechanica, 2021, 232, 2555-2574.	1.1	18
15	Analysis of indentation size effect (ISE) in nanoindentation hardness in polycrystalline PMN-PT piezoceramics with different domain configurations. Ceramics International, 2021, 47, 11870-11877.	2.3	34
16	A Three-Coil Setup for Controlled Divergence in Magnetic Nozzle. IEEE Transactions on Plasma Science, 2021, 49, 2227-2237.	0.6	17
17	A new framework based on XFEM for cracked semipermeable piezoelectric material. Engineering Fracture Mechanics, 2021, 253, 107874.	2.0	21
18	A simplified continuousâ€“discontinuous approach to fracture based on decoupled localizing gradient damage method. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113893.	3.4	18

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19	A polygonal FEM and continuum damage mechanics based framework for stochastic simulation of fatigue life scatter in duplex microstructure titanium alloys. Mechanics of Materials, 2021, 163, 104071.	1.7	14
20	Modelling of fracture in pressure vessels by thin shell isogeometric analysis. International Journal of Hydromechatronics, 2021, 4, 155.	1.0	5
21	Complete Creep Life Prediction Using Continuum Damage Mechanics and XFEM. Lecture Notes in Mechanical Engineering, 2021, , 169-176.	0.3	2
22	Numerical Study of Coupled Elasto-Plastic Hydrogen Diffusion at Crack Tip Using XFEM. Lecture Notes in Mechanical Engineering, 2021, , 177-186.	0.3	2
23	Improvement on High-Temperature Mechanical Properties of Modified 9Cr-1Mo Steel Through Intermediate Hot Rolling. Lecture Notes in Mechanical Engineering, 2020, , 129-139.	0.3	0
24	Mixed-Mode Creep Crack Growth Simulations Using Continuum Damage Mechanics and Virtual Node XFEM. Lecture Notes in Mechanical Engineering, 2020, , 275-284.	0.3	3
25	A stress triaxiality based modified Liuâ€“Murakami creep damage model for creep crack growth life prediction in different specimens. International Journal of Fracture, 2020, 221, 101-121.	1.1	12
26	Numerical investigation of creep crack growth in plastically graded materials using C(t) and XFEM. Engineering Fracture Mechanics, 2020, 226, 106820.	2.0	25
27	Adaptive mesh refinement schemes for the localizing gradient damage method based on biquadratic-bilinear coupled-field elements. Engineering Fracture Mechanics, 2020, 223, 106790.	2.0	14
28	An improved methodology based on continuum damage mechanics and stress triaxiality to capture the constraint effect during fatigue crack propagation. International Journal of Fatigue, 2020, 140, 105823.	2.8	21
29	A Thermo-mechanical gradient enhanced damage method for fracture. Computational Mechanics, 2020, 66, 1399-1426.	2.2	23
30	Effect of double austenitization treatment on fatigue crack growth and high cycle fatigue behavior of modified 9Crâ€“1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139495.	2.6	10
31	Effect of Thermo-mechanical Treatment on High Temperature Tensile Properties and Ductileâ€“Brittle Transition Behavior of Modified 9Cr-1Mo Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3869-3885.	1.1	8
32	Failure analysis of orthotropic composite material under thermo-elastic loading by XFEA. Materials Today: Proceedings, 2020, 26, 2163-2167.	0.9	5
33	Effect of post-weld heat treatment on mechanical properties and fatigue crack growth rate in welded AA-2024. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139116.	2.6	43
34	Analysis of cracked functionally graded piezoelectric material using XIGA. Engineering Fracture Mechanics, 2020, 230, 107015.	2.0	24
35	Buckling and vibrations of FGM circular plates in thermal environment. Procedia Structural Integrity, 2019, 14, 362-374.	0.3	19
36	Source codes and simulation data for the finite element implementation of the conventional and localizing gradient damage methods in ABAQUS. Data in Brief, 2019, 26, 104533.	0.5	15

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37	A Numerical Study of Creep Crack Growth in an Aero-engine Turbine Disc using XFEM. Procedia Structural Integrity, 2019, 14, 839-848.	0.3	6
38	Analysis of cracked functionally graded material plates using XIGA based on generalized higher-order shear deformation theory. Composite Structures, 2019, 225, 111038.	3.1	28
39	Fatigue crack growth simulations of plastically graded materials using XFEM and J-integral decomposition approach. Engineering Fracture Mechanics, 2019, 216, 106470.	2.0	32
40	A comparative study and ABAQUS implementation of conventional and localizing gradient enhanced damage models. Finite Elements in Analysis and Design, 2019, 160, 1-31.	1.7	53
41	A multiscale framework based on phase field method and XFEM to simulate fracture in highly heterogeneous materials. Theoretical and Applied Fracture Mechanics, 2019, 100, 390-415.	2.1	45
42	A simple and robust computational homogenization approach for heterogeneous particulate composites. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 45-90.	3.4	16
43	A parallel and efficient multi-split XFEM for 3-D analysis of heterogeneous materials. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 365-401.	3.4	29
44	A new framework based on continuum damage mechanics and XFEM for high cycle fatigue crack growth simulations. Engineering Fracture Mechanics, 2019, 206, 172-200.	2.0	59
45	Creep crack simulations using continuum damage mechanics and extended finite element method. International Journal of Damage Mechanics, 2019, 28, 3-34.	2.4	45
46	A homogenized multigrid XFEM to predict the crack growth behavior of ductile material in the presence of microstructural defects. Engineering Fracture Mechanics, 2019, 205, 577-602.	2.0	25
47	Role of shear localization in nanocrystallisation of zircaloy-2 processed by wire rolling at cryo temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 111-122.	2.6	2
48	Analysis of cracked plate using higher-order shear deformation theory: Asymptotic crack-tip fields and XIGA implementation. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 594-639.	3.4	39
49	An adaptive multiscale phase field method for brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2018, 329, 254-288.	3.4	110
50	Fatigue Crack Growth Analysis of an Interfacial Crack in Heterogonous Material Using XIGA. Mathematics for Industry, 2018, , 15-26.	0.4	1
51	A BÃ©zier extraction based XIGA approach for three-dimensional crack simulations. Advances in Engineering Software, 2018, 125, 55-93.	1.8	35
52	Influence of intermediate rolling on mechanical behavior of modified 9Cr-1Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 135-152.	2.6	14
53	A new multiscale phase field method to simulate failure in composites. Advances in Engineering Software, 2018, 126, 9-33.	1.8	53
54	Effect of Tempering and Rolling on Fatigue Crack Growth Behavior of Modified 9Cr-1Mo Steel. Journal of Materials Engineering and Performance, 2018, 27, 5898-5912.	1.2	7

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55	A local moving extended phase field method (LMXPFM) for failure analysis of brittle materials. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 674-709.	3.4	38
56	Mixed mode crack growth in elasto-plastic-creeping solids using XFEM. Engineering Fracture Mechanics, 2018, 199, 489-517.	2.0	39
57	Experimental and numerical studies to estimate fatigue crack growth behavior of Ni-based super alloy. Theoretical and Applied Fracture Mechanics, 2018, 96, 604-616.	2.1	29
58	Experimental and XFEM Simulation of Tensile and Fracture Behavior of Al 6061 Alloy Processed by Severe Plastic Deformation. Metallography, Microstructure, and Analysis, 2017, 6, 55-72.	0.5	4
59	A simple, efficient and accurate BÃ©zier extraction based T-spline XIGA for crack simulations. Theoretical and Applied Fracture Mechanics, 2017, 88, 74-96.	2.1	72
60	A new multiscale XFEM for the elastic properties evaluation of heterogeneous materials. International Journal of Mechanical Sciences, 2017, 122, 277-287.	3.6	75
61	A stochastic XFEM model for the tensile strength prediction of heterogeneous graphite based on microstructural observations. Journal of Nuclear Materials, 2017, 487, 143-157.	1.3	24
62	A new cohesive crack tip symplectic analytical singular element involving plastic zone length for fatigue crack growth prediction under variable amplitude cyclic loading. European Journal of Mechanics, A/Solids, 2017, 65, 79-90.	2.1	44
63	Numerical Prediction of Indentation Behavior of Metal Matrix Composites Using XFEM. Procedia Engineering, 2017, 173, 1071-1078.	1.2	1
64	Nonlinear Fatigue Crack Growth Simulations using J -integral Decomposition and XFEM. Procedia Engineering, 2017, 173, 1209-1214.	1.2	22
65	A numerical prediction of flexural strength probability for NBG-18 nuclear grade graphite using strength pair model. Journal of Strain Analysis for Engineering Design, 2017, 52, 204-211.	1.0	3
66	A two-scale stochastic framework for predicting failure strength probability of heterogeneous materials. Composite Structures, 2017, 179, 294-325.	3.1	16
67	Heterogeneous and homogenized models for predicting the indentation response of particle reinforced metal matrix composites. International Journal of Mechanics and Materials in Design, 2017, 13, 531-552.	1.7	14
68	Numerical Simulation of 3D Thermo-Elastic Fatigue Crack Growth Problems Using Coupled FE-EFG Approach. Journal of the Institution of Engineers (India): Series C, 2017, 98, 295-312.	0.7	9
69	Ductile failure modeling and simulations using coupled FEâ€“EFG approach. International Journal of Fracture, 2017, 203, 183-209.	1.1	24
70	Modeling and Simulation of 3-D Interfacial Cracks by XFEM. , 2017, , .		1
71	Simulation of 3-D Cracks under Thermo-Mechanical Environment. Materials Today: Proceedings, 2017, 4, 10259-10263.	0.9	3
72	Fatigue crack growth analysis of an interfacial crack in heterogeneous materials using homogenized XIGA. Theoretical and Applied Fracture Mechanics, 2016, 85, 294-319.	2.1	54

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73	Three-dimensional quasi-static interfacial crack growth simulations in thermo-mechanical environment by coupled FE-EFG approach. Theoretical and Applied Fracture Mechanics, 2016, 86, 267-283.	2.1	26
74	Enhanced nodal gradient 3D consecutive-interpolation tetrahedral element (CTH4) for heat transfer analysis. International Journal of Heat and Mass Transfer, 2016, 103, 14-27.	2.5	42
75	Exact continuum interpolation of the linear chain with hyper-pre-stress. International Journal of Fracture, 2016, 202, 237-244.	1.1	1
76	A Modified Theta Projection Model for Creep Behavior of Metals and Alloys. Journal of Materials Engineering and Performance, 2016, 25, 3985-3992.	1.2	12
77	Evaluating Fracture Toughness of Rolled Zircaloy-2 at Different Temperatures Using XFEM. Journal of Materials Engineering and Performance, 2016, 25, 4046-4058.	1.2	10
78	A coupled FEâ€“EFG approach for modelling crack growth in ductile materials. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 1204-1225.	1.7	25
79	Evaluation of mechanical properties using spherical ball indentation and coupled finite elementâ€“element-free galerkin approach. Mechanics of Advanced Materials and Structures, 2016, 23, 832-843.	1.5	19
80	Material property evaluation of particle reinforced composites using finite element approach. Journal of Composite Materials, 2016, 50, 2757-2771.	1.2	22
81	Numerical simulations of cracked plate using XIGA under different loads and boundary conditions. Mechanics of Advanced Materials and Structures, 2016, 23, 704-714.	1.5	31
82	New enrichments in XFEM to model dynamic crack response of 2-D elastic solids. International Journal of Impact Engineering, 2016, 87, 198-211.	2.4	66
83	Numerical simulation of functionally graded cracked plates using NURBS based XIGA under different loads and boundary conditions. Composite Structures, 2015, 126, 347-359.	3.1	135
84	Fatigue crack growth simulations of 3-D linear elastic cracks under thermal load by XFEM. Frontiers of Structural and Civil Engineering, 2015, 9, 359-382.	1.2	39
85	Elasto-plastic fatigue crack growth analysis of plane problems in the presence of flaws using XFEM. Frontiers of Structural and Civil Engineering, 2015, 9, 420-440.	1.2	26
86	A homogenized XFEM approach to simulate fatigue crack growth problems. Computers and Structures, 2015, 150, 1-22.	2.4	78
87	Texture and Mechanical Behavior of Zircaloy-2 Rolled at Different Temperatures. Journal of Materials Engineering and Performance, 2015, 24, 618-625.	1.2	7
88	A new criterion for modeling multiple discontinuities passing through an element using XIGA. Journal of Mechanical Science and Technology, 2015, 29, 1131-1143.	0.7	32
89	Texture Evolution and Ultrafine Grain Formation in Cross-Cryo-Rolled Zircaloy-2. Acta Metallurgica Sinica (English Letters), 2015, 28, 837-846.	1.5	22
90	Elasto-Plastic Finite Deformation Simulations using 3-D Parallel XFEM. Materials Today: Proceedings, 2015, 2, 2030-2036.	0.9	1

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91	Three-dimensional stochastic quasi-static fatigue crack growth simulations using coupled FE-EFG approach. Computers and Structures, 2015, 160, 1-19.	2.4	31
92	Fatigue crack growth in functionally graded material using homogenized XIGA. Composite Structures, 2015, 134, 269-284.	3.1	34
93	Fatigue crack growth analysis of a homogeneous plate in the presence of multiple defects using extended isogeometric analysis. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 1065-1082.	0.8	23
94	Development of Ultrafine Grained Zircaloy-2 by Room Temperature Cross Rolling. Journal of Materials Engineering and Performance, 2015, 24, 609-617.	1.2	1
95	Modeling and simulation of kinked cracks by virtual node XFEM. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1425-1466.	3.4	70
96	Stochastic fatigue crack growth simulation of interfacial crack in bi-layered FGMs using XIGA. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 186-229.	3.4	86
97	Simulation of Bi-metallic Interfacial Cracks Using Element Free Galerkin Method. Procedia Engineering, 2014, 86, 685-692.	1.2	6
98	Simulation of 3-D Thermo-elastic Fracture Problems Using Coupled FE-EFG Approach. , 2014, 6, 1927-1935.		4
99	Experimental Investigation of Fatigue Behavior of CR and RTR 6082 Al-alloy. , 2014, 6, 1919-1926.		6
100	XFEM for the evaluation of elastic properties of CNT-based 3-D full five-directional braided composites. Advanced Composite Materials, 2014, 23, 351-373.	1.0	5
101	Numerical Modeling of Part-through Cracks in Pipe and Pipe Bend Using XFEM. , 2014, 6, 72-79.		11
102	A multigrid coupled (FE-EFG) approach to simulate fatigue crack growth in heterogeneous materials. Theoretical and Applied Fracture Mechanics, 2014, 72, 121-135.	2.1	31
103	A coupled finite element and element-free Galerkin approach for the simulation of stable crack growth in ductile materials. Theoretical and Applied Fracture Mechanics, 2014, 70, 49-58.	2.1	30
104	Mechanical behaviour and microstructural characterizations of ultrafine grained Zircaloy-2 processed by cryorolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 603, 23-29.	2.6	28
105	XFEM simulation of stable crack growth using Jâ€“R curve under finite strain plasticity. International Journal of Mechanics and Materials in Design, 2014, 10, 165-177.	1.7	35
106	Fatigue life simulation of functionally graded materials under cyclic thermal load using XFEM. International Journal of Mechanical Sciences, 2014, 82, 41-59.	3.6	26
107	Numerical Simulations of 3-D Cracks Using Coupled EFGM and FEM. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 227-231.	1.4	7
108	Fatigue crack growth simulations of homogeneous and bi-material interfacial cracks using element free Galerkin method. Applied Mathematical Modelling, 2014, 38, 3093-3123.	2.2	46

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109	Improved Fracture Toughness of Cryorolled and Room Temperature Rolled 6082 Al Alloys. Acta Metallurgica Sinica (English Letters), 2014, 27, 359-367.	1.5	20
110	Mechanical and microstructural characterizations of ultrafine grained Zircaloy-2 produced by room temperature rolling. Materials & Design, 2014, 55, 612-618.	5.1	21
111	Experimental evaluation of mechanical properties and fracture-fatigue simulation of cryo- and room-temperature-rolled zircaloy-2. International Journal of Microstructure and Materials Properties, 2014, 9, 120.	0.1	1
112	Nonlinear Fatigue Crack Growth Analysis of a Center Crack Plate by XFEM. International Journal of Advanced Materials Manufacturing and Characterization, 2014, 4, 11-16.	0.2	8
113	Fatigue-life estimation of functionally graded materials using XFEM. Engineering With Computers, 2013, 29, 427-448.	3.5	21
114	Fatigue crack growth simulations of 3-D problems using XFEM. International Journal of Mechanical Sciences, 2013, 76, 112-131.	3.6	86
115	Fatigue crack growth simulations of bi-material interfacial cracks under thermo-elastic loading by extended finite element method. European Journal of Computational Mechanics, 2013, 22, 79-104.	0.6	27
116	Nonlinear Simulation of an Embedded Crack in the Presence of Holes and Inclusions by XFEM. Procedia Engineering, 2013, 64, 642-651.	1.2	24
117	Numerical Investigation of Stable Crack Growth in Ductile Materials Using XFEM. Procedia Engineering, 2013, 64, 652-660.	1.2	8
118	A novel enrichment criterion for modeling kinked cracks using element free Galerkin method. International Journal of Mechanical Sciences, 2013, 68, 140-149.	3.6	29
119	Numerical Simulation of Plane Crack Problems Using Extended Isogeometric Analysis. Procedia Engineering, 2013, 64, 661-670.	1.2	19
120	Fatigue crack growth simulations of interfacial cracks in bi-layered FGMs using XFEM. Computational Mechanics, 2013, 52, 799-814.	2.2	100
121	A simple and efficient XFEM approach for 3-D cracks simulations. International Journal of Fracture, 2013, 181, 189-208.	1.1	51
122	Numerical prediction of elasto-plastic behaviour of interpenetrating phase composites by EFGM. Composites Part B: Engineering, 2013, 51, 327-336.	5.9	22
123	Mixed-mode fatigue crack growth analysis of functionally graded materials by XFEM. International Journal of Fracture, 2013, 183, 81-97.	1.1	24
124	Evaluation of elastic properties of interpenetrating phase composites by mesh-free method. Journal of Composite Materials, 2013, 47, 1407-1423.	1.2	22
125	The Effect of Inhomogeneities on an Edge Crack: A Numerical Study using XFEM. International Journal for Computational Methods in Engineering Science and Mechanics, 2013, 14, 505-523.	1.4	12
126	Numerical Simulation of Large Deformation Problems by Element Free Galerkin Method. Key Engineering Materials, 2013, 535-536, 85-88.	0.4	2

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127	Recent Advances in Computational Mechanics. Advances in Mechanical Engineering, 2013, 5, 158572.	0.8	0
128	Experimental Finding Of Initiation Fracture Toughness And FEM Simulation Of Fracture Behaviour Of UFG 7075 Al Alloy. Advanced Materials Letters, 2013, 4, 668-681.	0.3	2
129	PARAMETER AND INTERACTION STUDY OF EDGE CRACK PROBLEM USING MESHFREE METHOD. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 03, 1250016.	0.9	2
130	Crack growth simulation of bulk and ultrafine grained 7075 Al alloy by XFEM. International Journal of Materials and Product Technology, 2012, 44, 252.	0.1	10
131	An Experimental Evaluation of Material Properties and Fracture Simulation of Cryorolled 7075 Al Alloy. Journal of Materials Engineering and Performance, 2012, 21, 1167-1181.	1.2	10
132	The numerical simulation of fatigue crack growth using extended finite element method. International Journal of Fatigue, 2012, 36, 109-119.	2.8	204
133	Numerical simulation of bi-material interfacial cracks using EFGM and XFEM. International Journal of Mechanics and Materials in Design, 2012, 8, 9-36.	1.7	78
134	An enrichment based new criterion for the simulation of multiple interacting cracks using element free Galerkin method. International Journal of Fracture, 2011, 167, 157-171.	1.1	18
135	XFEM simulation of cracks, holes and inclusions in functionally graded materials. International Journal of Mechanics and Materials in Design, 2011, 7, 199-218.	1.7	57
136	Synthesis and characterization of clinopyroxene based glasses and glass-ceramics along diopside (CaMgSi2O6)â€“jadeite (NaAlSi2O6) join. Ceramics International, 2011, 37, 741-748.	2.3	15
137	A numerical study of crack interactions under thermo-mechanical load using EFGM. Journal of Mechanical Science and Technology, 2011, 25, 403-413.	0.7	28
138	Evaluation of mixed mode stress intensity factors for interface cracks using EFGM. Applied Mathematical Modelling, 2011, 35, 3443-3459.	2.2	60
139	Tensile and impact-toughness behaviour of cryorolled Al 7075 alloy. Materials & Design, 2011, 32, 1298-1305.	5.1	71
140	Fatigue behaviour and crack growth rate of cryorolled Al 7075 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7124-7132.	2.6	45
141	AN EFFICIENT PARTIAL DOMAIN ENRICHED ELEMENT-FREE GALERKIN METHOD CRITERION FOR CRACKS IN NONCONVEX DOMAINS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 02, 317-336.	0.9	4
142	Improvement of Fracture Toughness (K_{1c}) of 7075 Al Alloy by Cryorolling Process. Materials Science Forum, 2011, 683, 81-94.	0.3	10
143	A Numerical Study of the Effects of Packer-Induced Stresses and Stress Shadowing on Fracture Initiation and Stimulation of Horizontal Wells. , 2010, , .		12
144	A modified intrinsic enriched element free Galerkin method for multiple cracks simulation. Materials & Design, 2010, 31, 628-632.	5.1	26

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145	Numerical simulation of thermo-elastic fracture problems using element free Galerkin method. International Journal of Mechanical Sciences, 2010, 52, 1745-1755.	3.6	62
146	Combined effect of magnetic field and heat absorption on unsteady free convection and heat transfer flow in a micropolar fluid past a semi-infinite moving plate with viscous dissipation using element free Galerkin method. Applied Mathematics and Computation, 2010, 217, 308-321.	1.4	25
147	Mesh-Free Solution of Two-Dimensional Edge Crack Problems under Thermo-Mechanical Load. Journal of ASTM International, 2010, 7, 1-12.	0.2	2
148	Element free Galerkin method for transient thermal analysis of carbon nanotube composites. Thermal Science, 2008, 12, 39-48.	0.5	3
149	Evaluation of effective thermal conductivity of CNTâ€based nanoâ€composites by element free Galerkin method. International Journal of Numerical Methods for Heat and Fluid Flow, 2007, 17, 757-769.	1.6	16
150	Nonlinear Thermal Analysis of Carbon Nanotube Composites by Element Free Galerkin Method. Numerical Heat Transfer; Part A: Applications, 2007, 51, 1087-1102.	1.2	7
151	Numerical analysis of fluid squeezed between two parallel plates by meshless method. Computers and Fluids, 2007, 36, 1460-1480.	1.3	18
152	An axisymmetric heat conduction model for a multi-material cylindrical system with application to analysis of carbon nanotube based composites. International Journal of Engineering Science, 2007, 45, 22-33.	2.7	2
153	Meshless element free Galerkin method for unsteady nonlinear heat transfer problems. International Journal of Heat and Mass Transfer, 2007, 50, 1212-1219.	2.5	95
154	Meshless method for nonlinear heat conduction analysis of nano-composites. Heat and Mass Transfer, 2007, 43, 1097-1106.	1.2	9
155	Thermal Analysis of CNT-Based Nano-Composites by Element Free Galerkin Method. Computational Mechanics, 2007, 39, 719-728.	2.2	22
156	Effect of interface on the thermal conductivity of carbon nanotube composites. International Journal of Thermal Sciences, 2007, 46, 842-847.	2.6	76
157	Numerical Solution of Temperature-Dependent Thermal Conductivity Problems Using a Meshless Method. Numerical Heat Transfer; Part A: Applications, 2006, 50, 125-145.	1.2	43
158	Meshless analysis of unsteady-state heat transfer in semi-infinite solid with temperature-dependent thermal conductivity. International Communications in Heat and Mass Transfer, 2006, 33, 231-239.	2.9	23
159	Heat transfer analysis of composite slabs using meshless element Free Galerkin method. Computational Mechanics, 2006, 38, 521-532.	2.2	25
160	Thermal solution of cylindrical composite systems using meshless method. Heat and Mass Transfer, 2006, 42, 689-707.	1.2	4
161	Parallel EFG algorithm for heat transfer problems. Advances in Engineering Software, 2005, 36, 554-560.	1.8	20
162	A Numerical Study of Weight Functions, Scaling, and Penalty Parameters for Heat Transfer Applications. Numerical Heat Transfer; Part A: Applications, 2005, 47, 1025-1053.	1.2	17

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163	Parallel Meshless EFG Solution for Fluid Flow Problems. Numerical Heat Transfer, Part B: Fundamentals, 2005, 48, 45-66.	0.6	11
164	Parallel implementation of the EFG Method for heat transfer and fluid flow problems. Computational Mechanics, 2004, 34, 453-463.	2.2	16
165	Application of meshless EFG method in fluid flow problems. Sadhana - Academy Proceedings in Engineering Sciences, 2004, 29, 285-296.	0.8	2
166	A numerical solution of composite heat transfer problems using meshless method. International Journal of Heat and Mass Transfer, 2004, 47, 2123-2138.	2.5	78
167	MESHLESS EFG METHOD IN THREE-DIMENSIONAL HEAT TRANSFER PROBLEMS: A NUMERICAL COMPARISON, COST AND ERROR ANALYSIS. Numerical Heat Transfer; Part A: Applications, 2004, 46, 199-220.	1.2	44
168	HEAT TRANSFER ANALYSIS OF TWO-DIMENSIONAL FINS USING MESHLESS ELEMENT FREE GALERKIN METHOD. Numerical Heat Transfer; Part A: Applications, 2003, 44, 73-84.	1.2	71
169	THE ELEMENT FREE GALERKIN METHOD IN THREE DIMENSIONAL STEADY STATE HEAT CONDUCTION. International Journal of Computational Engineering Science, 2002, 03, 291-303.	0.1	33
170	A Comparison of EFGM and FEM for Nonlinear Solid Mechanics Problems. Key Engineering Materials, 0, 535-536, 434-437.	0.4	0
171	Modeling and Simulation of Metal Forming Processes by XFEM. Applied Mechanics and Materials, 0, 829, 41-45.	0.2	5
172	Fatigue Crack Growth Simulations in Ductile Materials by Coupled FE-EFG Approach. Applied Mechanics and Materials, 0, 829, 73-77.	0.2	0
173	Composite Patch Repair of Structural Member by Coupled FE-EFG Approach. Applied Mechanics and Materials, 0, 829, 78-82.	0.2	0
174	Indentation behavior of metal matrix composites reinforced with arbitrary shape particle using a coupled FE-EFG approach. Mechanics of Advanced Materials and Structures, 0, , 1-18.	1.5	2