

Lu Sun

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Quality improvement methods for hexahedral element meshes adaptively generated using grid-based algorithm. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 89, 726-761.	2.8	19
2	Adaptive generation and local refinement methods of three-dimensional hexahedral element mesh. <i>Finite Elements in Analysis and Design</i> , 2012, 50, 184-200.	3.2	16
3	Automatic quadrilateral mesh generation and quality improvement techniques for an improved combination method. <i>Computational Geosciences</i> , 2015, 19, 371-388.	2.4	10
4	Effects of welding angle on microstructure and mechanical properties of longitudinal weld in 6063 aluminum alloy extrusion profiles. <i>Journal of Materials Research and Technology</i> , 2022, 17, 756-773.	5.8	10
5	Adaptive hexahedral mesh generation and quality optimization for solid models with thin features using a grid-based method. <i>Engineering With Computers</i> , 2016, 32, 61-84.	6.1	5
6	Engineering applications of 2D and 3D finite element mesh generation in hydrogeology and water resources. <i>Computational Geosciences</i> , 2017, 21, 733-758.	2.4	5
7	Experimental Study and Optimization on Solution and Artificial Aging of Cold-Rolled 2024 Al Alloy Sheet. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 5419-5431.	2.5	4
8	Applications of quadrilateral and quadrilateral-prism mesh generation in overland and subsurface simulations. <i>Journal of Hydrology</i> , 2017, 548, 716-740.	5.4	2
9	An Automatic Method for Complete Triangular Mesh Conversion into Quadrilateral Mesh for Multiple Domain Geometry. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2016, 27, 139.	0.6	2
10	A combined algorithm for characteristic edge match of hexahedral meshes based on priority nodes and relative position relationships. <i>Computational Materials Science</i> , 2012, 65, 335-355.	3.0	1
11	An automatic approach to constrained quadrilateral mesh generation. <i>Engineering Computations</i> , 2019, 37, 929-951.	1.4	1
12	Automatic triangular and triangular-prism mesh generation for overland and subsurface water flow simulations. <i>Physics of Fluids</i> , 2020, 32, 056602.	4.0	1
13	An Automatic Mesh Generator for Hexahedral Element Mesh Using an Improved Grid-Based Method. <i>Advanced Materials Research</i> , 0, 219-220, 689-693.	0.3	0
14	Surface Matching Technique in Hexahedral Element Mesh Generation with Inside-Out Grid-Based Method. <i>Key Engineering Materials</i> , 2011, 474-476, 908-914.	0.4	0
15	Grid-based hexahedral element meshing algorithms for solid models with concave curved boundary lines. <i>Engineering With Computers</i> , 2014, 30, 57-78.	6.1	0
16	An automatic quadrilateral mesh generation algorithm applied to 2-D overland flow simulations. <i>Computational Geosciences</i> , 2018, 22, 1283-1303.	2.4	0
17	3D hybrid mesh generation with an improved vertical stretch algorithm for geometric models with pinch-out features. <i>Computational Geosciences</i> , 2021, 25, 575-599.	2.4	0