

ESI Research fronts 2021 in mechanical engineering

No.	Front reseach	articles	citations
1	CAVITY MAGNONICS; CAVITY MAGNON POLARITONS; CAVITY MAGNOMECHANICS; CAVITY OPTOMAGNONICS; CAVITY MAGNON-POLARITONS	15	1476
2	CLOSED QUANTUM SYSTEMS; QUANTUM CHAOS; STATISTICAL MECHANICS; EIGENSTATE THERMALIZATION; SYSTEMS	3	1302
3	MAXIMUM UNDEFORMED EQUIVALENT CHIP THICKNESS; PREDICTIVE FORCE MODEL BASED; DIFFERENT LUBRICATION CONDITIONS; DUCTILE-BRITTLE TRANSITION; GRINDING MECHANICS	2	253
4	FORMING 3D MESOSTRUCTURES; MORPHABLE 3D MESOSTRUCTURES; MULTISTABLE BUCKLING MECHANICS; ASSEMBLY METHODS; ADVANCED MATERIALS	2	476
5	ULTRALOW MECHANICAL DISSIPATION; MECHANICAL RESONATORS; ELASTIC STRAIN ENGINEERING; QUANTUM OPTOMECHANICS EXPERIMENTS; ROOM TEMPERATURE	2	274
6	CONTACT-MECHANICS CHALLENGE; MEETING; MODELING; SCALES; SIMULATION	2	277
7	PYTHON BASED METAL CENTER PARAMETER BUILDER; METAL ION MODELING; CLASSICAL MECHANICS; MCPB; PY	2	335
8	HYDRAULIC FRACTURE PROPAGATION; HYDRAULIC FRACTURES; NUMERICAL METHODS; MECHANICS; TRENDS	2	343
9	MECHANICS; FUNCTIONALLY GRADED NANOSCALE; MICROSCALE STRUCTURES; NANOSTRUCTURES	2	222
10	ELLIPTIC HEMIVARIATIONAL INEQUALITIES; HEMIVARIATIONAL INEQUALITIES; NUMERICAL ANALYSIS; CONTACT MECHANICS	2	80
11	OPTICAL COHERENCE ELASTOGRAPHY; OPTICAL ELASTOGRAPHY; TISSUE BIOMECHANICS [INVITED]; BIOMEDICINE; EMERGENCE	2	263