

Daniel Nelias

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

150
papers

3,159
citations

33
h-index

50
g-index

173
ext. papers

3,594
ext. citations

3.5
avg, IF

5.39
L-index

#	Paper	IF	Citations
150	Development of a Three-Dimensional Semi-Analytical Elastic-Plastic Contact Code. <i>Journal of Tribology</i> , 2002 , 124, 653-667	1.8	171
149	Effects of heat treatments on the microstructure and mechanical properties of a 6061 aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2718-2724	5.3	138
148	Role of Inclusions, Surface Roughness and Operating Conditions on Rolling Contact Fatigue. <i>Journal of Tribology</i> , 1999 , 121, 240-251	1.8	109
147	Coupled precipitation and yield strength modelling for non-isothermal treatments of a 6061 aluminium alloy. <i>Acta Materialia</i> , 2014 , 62, 129-140	8.4	99
146	Chip formation in orthogonal cutting considering interface limiting shear stress and damage evolution based on fracture energy approach. <i>Finite Elements in Analysis and Design</i> , 2011 , 47, 850-863	2.2	89
145	A fast and efficient contact algorithm for fretting problems applied to fretting modes I, II and III. <i>Wear</i> , 2010 , 268, 208-222	3.5	78
144	Modelling of multiple impacts for the prediction of distortions and residual stresses induced by ultrasonic shot peening (USP). <i>Journal of Materials Processing Technology</i> , 2012 , 212, 2080-2090	5.3	77
143	Experimental investigation and finite element simulation of laser beam welding induced residual stresses and distortions in thin sheets of AA 6056-T4. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3025-3039	5.3	72
142	Elastic-Plastic Contact Between Rough Surfaces: Proposal for a Wear or Running-In Model. <i>Journal of Tribology</i> , 2006 , 128, 236-244	1.8	71
141	Prediction of laser beam welding-induced distortions and residual stresses by numerical simulation for aeronautic application. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2907-2917	5.3	69
140	Contact analysis in presence of spherical inhomogeneities within a half-space. <i>International Journal of Solids and Structures</i> , 2010 , 47, 3034-3049	3.1	67
139	Detrimental Effects of Debris Dents on Rolling Contact Fatigue. <i>Journal of Tribology</i> , 2000 , 122, 55-64	1.8	67
138	Contact Analyses for Bodies With Frictional Heating and Plastic Behavior. <i>Journal of Tribology</i> , 2005 , 127, 355-364	1.8	65
137	Modeling of Fretting Wear Under Gross Slip and Partial Slip Conditions. <i>Journal of Tribology</i> , 2007 , 129, 528-535	1.8	60
136	Elastic coupling between layers in two-dimensional materials. <i>Nature Materials</i> , 2015 , 14, 714-20	27	58
135	Modeling of the Rolling and Sliding Contact Between Two Asperities. <i>Journal of Tribology</i> , 2007 , 129, 235-245	1.8	54
134	A Three-Dimensional Semianalytical Model for Elastic-Plastic Sliding Contacts. <i>Journal of Tribology</i> , 2007 , 129, 761-771	1.8	54

133	A Comprehensive Method to Predict Wear and to Define the Optimum Geometry of Fretting Surfaces. <i>Journal of Tribology</i> , 2006 , 128, 476-485	1.8	53
132	Nonlinear dynamic analysis of cylindrical roller bearing with flexible rings. <i>Journal of Sound and Vibration</i> , 2009 , 325, 145-160	3.9	50
131	Multiscale computation of fretting wear at the blade/disk interface. <i>Tribology International</i> , 2010 , 43, 708-718	4.9	50
130	An Experimental Study on the Concentration and Shape of Dents Caused by Spherical Metallic Particles in EHL Contacts. <i>Tribology Transactions</i> , 1999 , 42, 231-240	1.8	46
129	Rolling contact of a rigid sphere/sliding of a spherical indenter upon a viscoelastic half-space containing an ellipsoidal inhomogeneity. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 80, 1-25	5	41
128	Contact analysis in the presence of an ellipsoidal inhomogeneity within a half space. <i>International Journal of Solids and Structures</i> , 2014 , 51, 1390-1402	3.1	38
127	Finite element analysis of metallurgical phase transformations in AA 6056-T4 and their effects upon the residual stress and distortion states of a laser welded T-joint. <i>International Journal of Pressure Vessels and Piping</i> , 2011 , 88, 45-56	2.4	37
126	Ball Motion and Sliding Friction in a Four-Contact-Point Ball Bearing. <i>Journal of Tribology</i> , 2007 , 129, 801-808	1.8	37
125	FE-model for Titanium alloy (Ti-6Al-4V) cutting based on the identification of limiting shear stress at tool-chip interface. <i>International Journal of Material Forming</i> , 2011 , 4, 11-23	2	36
124	Semi analytical fretting wear simulation including wear debris. <i>Tribology International</i> , 2017 , 109, 1-9	4.9	35
123	Some insights on the modelling of chip formation and its morphology during metal cutting operations. <i>Comptes Rendus - Mecanique</i> , 2016 , 344, 335-354	2.1	35
122	Simulation of the Cold Spray Particle Deposition Process. <i>Journal of Tribology</i> , 2015 , 137,	1.8	35
121	Numerical simulation of grinding induced phase transformation and residual stresses in AISI-52100 steel. <i>Finite Elements in Analysis and Design</i> , 2012 , 61, 1-11	2.2	35
120	Contact Pressure and Residual Strain in 3D Elasto-Plastic Rolling Contact for a Circular or Elliptical Point Contact. <i>Journal of Tribology</i> , 2011 , 133,	1.8	35
119	Contact analyses for anisotropic half-space coated with an anisotropic layer: Effect of the anisotropy on the pressure distribution and contact area. <i>International Journal of Solids and Structures</i> , 2013 , 50, 743-754	3.1	34
118	Cyclic behaviour of a 6061 aluminium alloy: Coupling precipitation and elastoplastic modelling. <i>Acta Materialia</i> , 2015 , 83, 256-268	8.4	33
117	Cutting simulation capabilities based on crystal plasticity theory and discrete cohesive elements. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 936-953	5.3	33
116	Contact Fatigue Analysis of a Dented Surface in a Dry Elastic-Plastic Circular Point Contact. <i>Tribology Letters</i> , 2008 , 29, 139-153	2.8	33

115	Experimental and Theoretical Investigation on Rolling Contact Fatigue of 52100 and M50 Steels Under EHL or Micro-EHL Conditions. <i>Journal of Tribology</i> , 1998 , 120, 184-190	1.8	32
114	Stick-slip analysis of a circular point contact between a rigid sphere and a flat unidirectional composite with cylindrical fibers. <i>International Journal of Solids and Structures</i> , 2011 , 48, 3510-3520	3.1	29
113	Early Fatigue Failure Due to Dents in EHL Contacts. <i>Tribology Transactions</i> , 1999 , 42, 795-800	1.8	29
112	Analysis of High-Speed Intershaft Cylindrical Roller Bearing with Flexible Rings. <i>Tribology Transactions</i> , 2005 , 48, 154-164	1.8	28
111	A unified and simplified treatment of the non-linear equilibrium problem of double-row rolling bearings. Part 1: Rolling bearing model. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2003 , 217, 205-212	1.4	28
110	Modeling of the contact between a rigid indenter and a heterogeneous viscoelastic material. <i>Mechanics of Materials</i> , 2014 , 77, 28-42	3.3	27
109	New Methodology to Evaluate the Rolling Contact Fatigue Performance of Bearing Steels With Surface Dents: Application to 32CrMoV13 (Nitrided) and M50 Steels. <i>Journal of Tribology</i> , 2005 , 127, 611-622	1.8	27
108	Rolling of an Elastic Ellipsoid Upon an Elastic-Plastic Flat. <i>Journal of Tribology</i> , 2007 , 129, 791-800	1.8	26
107	Analysis of Double-Row Tapered Roller Bearings, Part I - Model. <i>Tribology Transactions</i> , 2003 , 46, 228-239	1.8	26
106	Constitutive model for nickel alloy 690 (Inconel 690) at various strain rates and temperatures. <i>International Journal of Plasticity</i> , 2016 , 80, 139-153	7.6	25
105	Integrated modelling of a 6061-T6 weld joint: From microstructure to mechanical properties. <i>Acta Materialia</i> , 2016 , 117, 81-90	8.4	24
104	A methodology to predict the roughness of shot peened surfaces. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 65-76	5.3	23
103	A unified and simplified treatment of the non-linear equilibrium problem of double-row rolling bearings. Part 2: Application to taper rolling bearings supporting a flexible shaft. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2003 , 217, 213-221	1.4	23
102	Residual stresses induced by electron beam welding in a 6061 aluminium alloy. <i>Journal of Materials Processing Technology</i> , 2016 , 235, 1-12	5.3	23
101	Fully Coupled Resolution of Heterogeneous Elastic-Plastic Contact Problem. <i>Journal of Tribology</i> , 2016 , 138,	1.8	22
100	On the Effect of Isotropic Hardening on the Coefficient of Restitution for Single or Repeated Impacts Using a Semi-Analytical Method. <i>Tribology Transactions</i> , 2011 , 54, 714-722	1.8	22
99	Power Loss of Gearbox Ball Bearing Under Axial and Radial Loads. <i>Tribology Transactions</i> , 1994 , 37, 83-90	1.8	20
98	On the Tangential Displacement of a Surface Point Due to a Cuboid of Uniform Plastic Strain in a Half-Space. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2010 , 77,	2.7	19

97	An efficient method for analyzing the roller screw thread geometry. <i>Mechanism and Machine Theory</i> , 2018 , 126, 243-264	4	18
96	Prediction of Roller Skewing in Tapered Roller Bearings. <i>Tribology Transactions</i> , 2008 , 51, 128-139	1.8	18
95	Four-Point Contact Ball Bearing Model With Deformable Rings. <i>Journal of Tribology</i> , 2013 , 135,	1.8	17
94	Numerical investigations on drag coefficient of circular cylinder with two free ends in roller bearings. <i>Tribology International</i> , 2018 , 123, 43-49	4.9	16
93	Analysis of Double-Row Tapered Roller Bearings, Part II [Results: Prediction of Fatigue Life and Heat Dissipation. <i>Tribology Transactions</i> , 2003 , 46, 240-247	1.8	16
92	On the influence of residual stresses in determining the micro-yield stress profile in a nitrided steel by nano-indentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 342, 311-319	5.3	16
91	Traction Behavior of Some Lubricants Used for Rolling Bearings in Spacecraft Applications: Experiments and Thermal Model Based on Primary Laboratory Data. <i>Journal of Tribology</i> , 2002 , 124, 72-81	1.8	16
90	Crack initiation behavior in single crystalline silicon. <i>Scripta Materialia</i> , 2017 , 130, 83-86	5.6	15
89	A novel approach to investigate delta phase precipitation in cold-rolled 718 alloys. <i>Acta Materialia</i> , 2018 , 156, 31-42	8.4	15
88	Contact Analyses for Anisotropic Half Space: Effect of the Anisotropy on the Pressure Distribution and Contact Area. <i>Journal of Tribology</i> , 2012 , 134,	1.8	15
87	Influence of the nature and size of solid particles on the indentation features in EHL contacts. <i>Tribology Series</i> , 1998 , 399-409		15
86	Comparative analysis of mechanical strength of diamond-sawn silicon wafers depending on saw mark orientation, crystalline nature and thickness. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 201, 110068	6.4	14
85	Running Torque of Slow Speed Two-Point and Four-Point Contact Bearings. <i>Lubricants</i> , 2015 , 3, 181-196	3.1	14
84	Thermo-mechanical characterisation of AA 6056-T4 and estimation of its material properties using Genetic Algorithm. <i>Materials & Design</i> , 2010 , 31, 4302-4311		14
83	Stiffness and fracture analysis of photovoltaic grade silicon plates. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 355-369	3.1	14
82	Velocity correlated crack front and surface marks in single crystalline silicon. <i>Nature Communications</i> , 2018 , 9, 1298	17.4	13
81	A multiphase computational study of oil distribution inside roller bearings with under-race lubrication. <i>Tribology International</i> , 2019 , 140, 105862	4.9	13
80	Thermo-mechanical analysis of laser beam welding of thin plate with complex boundary conditions. <i>International Journal of Material Forming</i> , 2008 , 1, 1063-1066	2	13

79	High temperature fretting wear prediction of exhaust valve material. <i>Tribology International</i> , 2016 , 100, 280-286	4.9	12
78	Model formulation of churning losses in cylindrical roller bearings based on numerical simulation. <i>Tribology International</i> , 2018 , 121, 420-434	4.9	11
77	Numerical investigation of flow around one finite circular cylinder with two free ends. <i>Ocean Engineering</i> , 2018 , 156, 373-380	3.9	11
76	On the fracture of multi-crystalline silicon wafer. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 475601	3	11
75	Modeling of cavitation peening: Jet, bubble growth and collapse, micro-jet and residual stresses. <i>Journal of Materials Processing Technology</i> , 2018 , 262, 479-491	5.3	11
74	Microstructural and mechanical properties evolutions of plasma transferred arc deposited Norem02 hardfacing alloy at high temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5096-5105	5.3	11
73	Analysis of Ball Bearings with 2, 3 or 4 Contact Points. <i>Tribology Transactions</i> , 2008 , 51, 372-380	1.8	11
72	Analytical prediction of the geometry of contact ellipses and kinematics in a roller screw versus experimental results. <i>Mechanism and Machine Theory</i> , 2019 , 131, 115-136	4	11
71	Étude expérimentale et théorique du microgrippage dans les contacts élastohydrodynamiques. <i>International Journal of Thermal Sciences</i> , 1997 , 36, 26-39		10
70	Influence of fretting wear on bladed disks dynamic analysis. <i>Tribology International</i> , 2020 , 145, 106148	4.9	10
69	Mechanical behaviour at high temperature as induced during welding of a 6xxx series aluminium alloy. <i>International Journal of Pressure Vessels and Piping</i> , 2017 , 149, 55-65	2.4	9
68	Three-dimensional rolling/sliding contact on a viscoelastic layered half-space. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 143, 104067	5	9
67	Effect of coherent and incoherent precipitates upon the stress and strain fields of 6xxx aluminium alloys: a numerical analysis. <i>International Journal of Mechanics and Materials in Design</i> , 2016 , 12, 255-271	2.5	9
66	Towards fast modelling of the tire-pavement contact. <i>European Journal of Environmental and Civil Engineering</i> , 2019 , 1-17	1.5	9
65	Validation and application of a numerical approach for the estimation of drag and churning losses in high speed roller bearings. <i>Applied Thermal Engineering</i> , 2019 , 153, 390-397	5.8	7
64	Indentation strength of silicon nitride ceramics processed by spark plasma sintering technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 159-170	5.3	7
63	A Simplified Model to Study EHL Film Collapse During Rapid Halting Motion. <i>Tribology Transactions</i> , 2002 , 45, 512-520	1.8	7
62	On the two-disc machine: A polyvalent and powerful tool to study fundamental and industrial problems related to elastohydrodynamic lubrication. <i>Tribology Series</i> , 2001 , 39, 393-402		7

61	3D modelling of tyre-pavement contact pressure. <i>European Journal of Environmental and Civil Engineering</i> , 2017 , 21, 712-729	1.5	6
60	Hertzian contact damage in silicon nitride ceramics with different porosity contents. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2269-2276	6	6
59	Theoretical Analysis of High-Speed Cylindrical Roller Bearing with Flexible Rings Mounted in a Squeeze Film Damper. <i>Tribology Transactions</i> , 2008 , 51, 762-770	1.8	6
58	Polyethylene as an Additive for Mineral Oils Part I: Influence of the Polymer Concentration on the Film Forming Properties in Rolling Bearing. <i>Tribology Transactions</i> , 1999 , 42, 851-859	1.8	6
57	Power Loss Prediction in High-Speed Roller Bearings. <i>Tribology Series</i> , 1994 , 465-478		6
56	A New Physically Based Model for Predicting the Fatigue Life Distribution of Rolling Bearings 197-197-16		6
55	Comparison of Fatigue Performances of 32CrMoV13 and M50 Steels in Presence of Surface Indents 187-187-116		
54	Crack plane deflection and shear wave effects in the dynamic fracture of silicon single crystal. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 122, 472-488	5	6
53	A coupled damage model and a semi-analytical contact solver to simulate butterfly wing formation around nonmetallic inclusions. <i>International Journal of Fatigue</i> , 2019 , 127, 445-460	5	5
52	Experimental Study of Four-Point Contact Ball Bearing with Deformable Rings. <i>Tribology Transactions</i> , 2015 , 58, 963-970	1.8	5
51	Self-emitted surface corrugations in dynamic fracture of silicon single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16872-16879	11.5	5
50	Disturbance and recovery in high speed (110) cleavage in single crystalline silicon. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1038-1045	6	5
49	Optimum initial axial compression due to preload in an arrangement of two tapered roller bearings Part 2: Application to the transfer shaft of an automobile automatic transaxle. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2000 , 214, 135-146	1.4	5
48	Effect of the tire Pavement contact at the surface layer when the tire is tilted in bend. <i>Construction and Building Materials</i> , 2021 , 305, 124765	6.7	5
47	High strain rate behavior of MC2 single crystal under uniaxial compression load at high temperature: Experiments and modeling. <i>Mechanics of Materials</i> , 2017 , 104, 145-156	3.3	4
46	Prediction of grinding residual stresses. <i>International Journal of Material Forming</i> , 2008 , 1, 1115-1118	2	4
45	Polyethylene as an Additive for Mineral Oils Part II: EHL Traction Behavior. <i>Tribology Transactions</i> , 2002 , 45, 145-152	1.8	4
44	Influence of the Sliding Speed on the Elastohydrodynamically Lubricated Film Thickness Shape of Wavy Contacts. <i>Tribology Series</i> , 1996 , 31, 515-526		4

43	ON DIFFERENT FE-BASED MODELS TO SIMULATE CUTTING OPERATION OF TITANIUM ALLOY (TI-6AL-4V). <i>Mechanika</i> , 2013 , 19,	1.5	4
42	A damage model for fretting contact between a sphere and a half space using semi-analytical method. <i>International Journal of Solids and Structures</i> , 2019 , 164, 66-83	3.1	4
41	Precipitation of γ in Inconel 718 alloy from microstructure to mechanical properties. <i>Materialia</i> , 2021 , 20, 101187	3.2	4
40	Numerical simulation of electromagnetic surface treatment. <i>Journal of Applied Physics</i> , 2018 , 123, 045901.5	2.5	3
39	Simulation of the Cold Spray Deposition Process for Aluminum and Copper using Lagrangian, ALE and CEL Methods 2014 , 321-358		3
38	Accelerated Fretting Wear Tests for Contacts Exposed to Atmosphere. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	3
37	Modeling of ultra-high-speed impact at the surface of an elastic half-space. <i>Wave Motion</i> , 2015 , 58, 77-100	1.0	3
36	Fracture phenomena induced by Front-End/Back-End interactions: Dedicated failure analysis and numerical developments. <i>Microelectronics Reliability</i> , 2010 , 50, 75-85	1.2	3
35	Optimum initial axial compression due to preload in an arrangement of two tapered roller bearings Part 1: Analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2000 , 214, 125-133	1.4	3
34	The tribological behaviour of mineral oils additivated with polyethylene. <i>Lubrication Science</i> , 1999 , 11, 247-270	1.3	3
33	Modélisation d'un contact frottant pour matériaux composites. <i>Materiaux Et Techniques</i> , 2013 , 101, 205-6	0.6	3
32	Tirepavement tractive rolling contact under turning conditions: towards pavement top-down cracking. <i>International Journal of Pavement Engineering</i> , 2020 , 1-10	2.6	2
31	A method to model crystalline anisotropy in contact using semi-analytical method. <i>Tribology International</i> , 2020 , 152, 106429	4.9	2
30	Optimal component mode synthesis for medium frequency problem. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 86, 301-315	2.4	2
29	Thin films interfacial adhesion characterization by Cross-Sectional Nanoindentation: Application to pad structures 2009 ,		2
28	Elasto-Plastic Layers of Non-Uniform Thickness in Contact Mechanics 2010 ,		2
27	Forming residual stresses effects on the electron beam welding distortions of thick components. <i>International Journal of Material Forming</i> , 2008 , 1, 367-370	2	2
26	Experimental evaluation and numerical simulation of mil-L-23699 traction curves: In memorium of georges tourlonias. <i>Tribology Series</i> , 2003 , 43, 795-806		2

25	Numerical and experimental investigations on rolling contact fatigue for dented surfaces. <i>Tribology Series</i> , 2001 , 459-467		2
24	Location of an acoustic emission source in a radially loaded deep groove ball-bearing. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 1998 , 212, 33-45	1.4	2
23	Impact-sliding wear response of 2.25Cr1Mo steel tubes: Experimental and semi-analytical method. <i>Friction</i> , 1	5.6	2
22	Comportement rhéologique et tribologique de lubrifiants avec additif polymère. <i>Materiaux Et Techniques</i> , 2001 , 89, 21-28	0.6	2
21	Weibull strength size effect of diamond wire sawn photovoltaic silicon wafers. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5357-5368	6	2
20	Approach of Pavement Surface Layer Degradation Caused by Tire Contact Using Semi-Analytical Model. <i>Materials</i> , 2021 , 14,	3.5	2
19	A Coupled Euler-Lagrange Model for More Realistic Simulation of Debris Denting in Rolling Element Bearings. <i>Tribology Transactions</i> , 2019 , 62, 760-778	1.8	1
18	Alternative calculation on transient elasto-hydrodynamic lubrication. <i>Industrial Lubrication and Tribology</i> , 2018 , 70, 423-431	1.3	1
17	The effect of an electromagnetic peening process on mumetal properties 2018 ,		1
16	Fretting Wear of Coated Surfaces Under Gross Slip Conditions 2014 ,		1
15	Influence of Forming Residual Stresses on the Welding Distortions of Two Thick Plates. <i>Advanced Materials Research</i> , 2009 , 83-86, 125-132	0.5	1
14	Numerical Simulation of the Cold Spray Deposition Process for Aluminium and Copper 2012 ,		1
13	Ball Motion and Sliding Friction in an Arched Ball Bearing 2007 , 391		1
12	Paper III (x) Deformation of a Particular Metallic Contaminant and Role on Surface Damage in High Speed Ball Bearings. <i>Tribology Series</i> , 1992 , 21, 145-151		1
11	Comparison of Fatigue Performances of 32CrMoV13 and M50 Steels in Presence of Surface Indents. <i>Journal of ASTM International</i> , 2006 , 3, 14051		1
10	Shear Banding in a Contact Problem between Metallic Glasses. <i>Metals</i> , 2021 , 11, 257	2.3	1
9	Sub-grain induced crack deviation in multi-crystalline silicon. <i>Journal of Applied Physics</i> , 2017 , 121, 235105.5		0
8	Rolling contact on a viscoelastic multi-layered half-space. <i>International Journal of Solids and Structures</i> , 2022 , 239-240, 111388	3.1	0

- 7 A novel SAM/X-FEM coupling approach for the simulation of 3D fatigue crack growth under rolling contact loading. *Finite Elements in Analysis and Design*, **2022**, 206, 103752 2.2 0
- 6 Laser and Electron Beam Welding of 6xxx Series Aluminum Alloys [On Some Thermal, Mechanical and Metallurgical Aspects **2014**, 75-153
- 5 On Methodologies inside Two Different Commercial Codes to Simulate the Cutting Operation. *Advanced Materials Research*, **2011**, 223, 162-171 0.5
- 4 Analysis of High-Speed Cylindrical Roller Bearing With Flexible Rings Mounted in a Squeeze Film Damper **2007**, 387
- 3 Thermal-Elastic-Plastic Contact Analysis for Rough Bodies With a Semi-Analytical Method **2007**, 521
- 2 Rolling contact fatigue of nitrided 32CrMoV13 steel. *Tribology Series*, **2003**, 41, 299-308
- 1 Influence of Ball Bearing Stiffness on Squeeze Film Behavior Including Fluid Flow Turbulence and Inertia Effects **1992**, 414-421