

# Bekir S Yilbas

## List of Publications by Citations

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695  
papers

9,361  
citations

41  
h-index

62  
g-index

716  
ext. papers

10,408  
ext. citations

3.5  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
695	A review on current status and challenges of inorganic phase change materials for thermal energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 70, 1072-1089	16.2	308
694	Heat transfer enhancement of phase change materials for thermal energy storage applications: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 26-50	16.2	284
693	The thermoelement as thermoelectric power generator: Effect of leg geometry on the efficiency and power generation. <i>Energy Conversion and Management</i> , <b>2013</b> , 65, 26-32	10.6	148
692	Thermodynamics and thermal stress analysis of thermoelectric power generator: Influence of pin geometry on device performance. <i>Applied Thermal Engineering</i> , <b>2013</b> , 50, 683-692	5.8	119
691	Parametric study to improve laser hole drilling process. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 70, 264-273	5.3	113
690	Plasma nitriding of Ti-6Al-4V alloy to improve some tribological properties. <i>Surface and Coatings Technology</i> , <b>1996</b> , 80, 287-292	4.4	103
689	Quasiballistic heat transfer studied using the frequency-dependent Boltzmann transport equation. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	92
688	Laser heating mechanism including evaporation process initiating laser drilling. <i>International Journal of Machine Tools and Manufacture</i> , <b>1995</b> , 35, 1047-1062	9.4	83
687	Superhydrophobic surfaces with antireflection properties for solar applications: A critical review. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 604-623	6.4	83
686	Influence of dust and mud on the optical, chemical, and mechanical properties of a pv protective glass. <i>Scientific Reports</i> , <b>2015</b> , 5, 15833	4.9	78
685	Thermodynamic analysis of a thermoelectric power generator in relation to geometric configuration device pins. <i>Energy Conversion and Management</i> , <b>2014</b> , 78, 634-640	10.6	78
684	Heating of metals at a free surface by laser irradiation—An electron kinetic theory approach. <i>International Journal of Engineering Science</i> , <b>1986</b> , 24, 1325-1334	5.7	78
683	Laser welding of low carbon steel and thermal stress analysis. <i>Optics and Laser Technology</i> , <b>2010</b> , 42, 760-768	4.2	69
682	Study into the Measurement and Prediction of Penetration Time during CO2 Laser Cutting Process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>1990</b> , 204, 105-113	2.4	67
681	The erosion-corrosion behaviour of high velocity oxy-fuel (HVOF) thermally sprayed inconel-625 coatings on different metallic surfaces. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 5782-5788	4.4	62
680	Dynamics of a water droplet on a hydrophobic inclined surface: influence of droplet size and surface inclination angle on droplet rolling. <i>RSC Advances</i> , <b>2017</b> , 7, 48806-48818	3.7	59
679	Thermoelectric device and optimum external load parameter and slenderness ratio. <i>Energy</i> , <b>2010</b> , 35, 5380-5384	7.9	59

678	Laser surface treatment of Inconel 718 alloy: Thermal stress analysis. <i>Optics and Lasers in Engineering</i> , <b>2010</b> , 48, 740-749	4.6	59
677	Laser cutting quality assessment and thermal efficiency analysis. <i>Journal of Materials Processing Technology</i> , <b>2004</b> , 155-156, 2106-2115	5.3	59
676	Laser heating process and experimental validation. <i>International Journal of Heat and Mass Transfer</i> , <b>1997</b> , 40, 1131-1143	4.9	57
675	Study of Affecting Parameters in Laser Hole Drilling of Sheet Metals. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>1987</b> , 109, 282-287	1.8	57
674	Liquid ejection and possible nucleate boiling mechanisms in relation to the laser drilling process. <i>Journal Physics D: Applied Physics</i> , <b>1997</b> , 30, 1996-2005	3	52
673	Analytical solution for time unsteady laser pulse heating of semi-infinite solid. <i>International Journal of Mechanical Sciences</i> , <b>1997</b> , 39, 671-682	5.5	52
672	CO2 laser gas assisted nitriding of Ti6Al4V alloy. <i>Applied Surface Science</i> , <b>2006</b> , 252, 8557-8564	6.7	51
671	Laser-shock processing of steel. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 135, 6-17	5.3	51
670	A study of the corrosion properties of TiN coated and nitrided Ti-6Al-4V. <i>Corrosion Science</i> , <b>1995</b> , 37, 1627-1636	6.8	51
669	Laser-induced thermal stresses on steel surface. <i>Optics and Lasers in Engineering</i> , <b>1998</b> , 30, 25-37	4.6	50
668	Experimental investigation into CO2 laser cutting parameters. <i>Journal of Materials Processing Technology</i> , <b>1996</b> , 58, 323-330	5.3	50
667	Heat transfer analysis of laser heated surfaces (conduction limited case). <i>Applied Surface Science</i> , <b>1997</b> , 108, 167-175	6.7	49
666	Development, analysis and assessment of solar energy-based multigeneration system with thermoelectric generator. <i>Energy Conversion and Management</i> , <b>2018</b> , 156, 746-756	10.6	49
665	Exergy analysis and optimization of a thermal management system with phase change material for hybrid electric vehicles. <i>Applied Thermal Engineering</i> , <b>2014</b> , 64, 471-482	5.8	48
664	Effect of process parameters on the kerf width during the laser cutting process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2001</b> , 215, 1357-1365	2.4	48
663	Dross formation during laser cutting process. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 1451-1461	3	47
662	Laser treatment of zirconia surface for improved surface hydrophobicity. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 625, 208-215	5.7	45
661	Improved formulation of electron kinetic theory approach for laser ultra-short-pulse heating. <i>International Journal of Heat and Mass Transfer</i> , <b>2006</b> , 49, 2227-2238	4.9	45

660	Natural convection and entropy generation in a square cavity. <i>International Journal of Energy Research</i> , <b>1998</b> , 22, 1275-1290	4.5	43
659	Characterization of dust collected from PV modules in the area of Dhahran, Kingdom of Saudi Arabia, and its impact on protective transparent covers for photovoltaic applications. <i>Solar Energy</i> , <b>2017</b> , 141, 203-209	6.8	42
658	Laser texturing of alumina surface for improved hydrophobicity. <i>Applied Surface Science</i> , <b>2013</b> , 286, 161-170	6.7	42
657	Laser melting of plasma nitrided Ti-6Al-4V alloy. <i>Wear</i> , <b>1997</b> , 212, 140-149	3.5	42
656	CO2 laser cutting of a carbon/carbon multi-lamelled plain-weave structure. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 173, 345-351	5.3	42
655	Local entropy generation in an impinging jet: minimum entropy concept evaluating various turbulence models. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2001</b> , 190, 3623-3644	5.7	42
654	Laser cutting of various materials: Kerf width size analysis and life cycle assessment of cutting process. <i>Optics and Laser Technology</i> , <b>2017</b> , 93, 67-73	4.2	41
653	Energetic and exergetic performance analyses of a solar energy-based integrated system for multigeneration including thermoelectric generators. <i>Energy</i> , <b>2015</b> , 93, 1246-1258	7.9	41
652	Water Droplet Dynamics on a Hydrophobic Surface in Relation to the Self-Cleaning of Environmental Dust. <i>Scientific Reports</i> , <b>2018</b> , 8, 2984	4.9	41
651	Material response to thermal loading due to short pulse laser heating. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 3787-3798	4.9	41
650	Investigation into drilling speed during laser drilling of metals. <i>Optics and Laser Technology</i> , <b>1988</b> , 20, 29-32	4.2	40
649	Laser cutting of thick sheet metals: Effects of cutting parameters on kerf size variations. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 201, 285-290	5.3	39
648	Electrochemical study of laser nitrided and PVD TiN coated Ti-6Al-4V alloy: the observation of selective dissolution. <i>Surface and Coatings Technology</i> , <b>2001</b> , 148, 46-54	4.4	39
647	Laser trepanning of a small diameter hole in titanium alloy: Temperature and stress fields. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1296-1304	5.3	38
646	The influence of gas jet velocity in laser heating a moving workpiece case. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2000</b> , 214, 1059-1078	10.78	38
645	Laser short-pulse heating of surfaces. <i>Journal Physics D: Applied Physics</i> , <b>1999</b> , 32, 1947-1954	3	38
644	Cemented carbide cutting tool: Laser processing and thermal stress analysis. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5544-5552	6.7	37
643	An Approach to Convergency of Kinetic Theory to Fourier Theory in Relation to Laser Heating Process. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 5646-5651	1.4	37

642	Characterization of Environmental Dust in the Dammam Area and Mud After-Effects on Bisphenol-A Polycarbonate Sheets. <i>Scientific Reports</i> , <b>2016</b> , 6, 24308	4.9	37
641	The influence of operating and device parameters on the maximum efficiency and the maximum output power of thermoelectric generator. <i>International Journal of Energy Research</i> , <b>2012</b> , 36, 111-119	4.5	36
640	Evaluation of gas nitriding process with in-process variation of nitriding potential for AISI H13 tool steel. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2010</b> , 47, 687-698	3.2	36
639	Laser treatment and PVD TiN coating of Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , <b>2001</b> , 140, 244-250	4.4	36
638	Effects of plasma on CO2 laser cutting quality. <i>Optics and Lasers in Engineering</i> , <b>1988</b> , 9, 1-12	4.6	36
637	A closed form solution for temperature rise inside solid substrate due to time exponentially varying pulse. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 1993-2000	4.9	35
636	MODELING OF LASER HEATING OF SOLID SUBSTANCE INCLUDING ASSISTING GAS IMPINGEMENT. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>1998</b> , 33, 315-339	2.3	35
635	Study of liquid and vapor ejection processes during laser drilling of metals. <i>Journal of Laser Applications</i> , <b>1995</b> , 7, 147-152	2.1	35
634	Phonon transport in silicon-silicon and silicon-diamond thin films: Consideration of thermal boundary resistance at interface. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 2186-2195	2.8	34
633	Second law analysis of a swirling flow in a circular duct with restriction. <i>International Journal of Heat and Mass Transfer</i> , <b>1999</b> , 42, 4027-4041	4.9	34
632	Thermal and stress analyses in thermoelectric generator with tapered and rectangular pin configurations. <i>Energy</i> , <b>2016</b> , 114, 52-63	7.9	34
631	Innovative design of a thermoelectric generator with extended and segmented pin configurations. <i>Applied Energy</i> , <b>2017</b> , 187, 367-379	10.7	33
630	Thermal stress developed during the laser cutting process: consideration of different materials. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2008</b> , 37, 698-704	3.2	33
629	Marangoni convection flow and heat transfer characteristics of water- $\text{TiO}_2$ nanofluid droplets. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 69, 763-780	2.3	32
628	Wetting and other physical characteristics of polycarbonate surface textured using laser ablation. <i>Applied Surface Science</i> , <b>2014</b> , 320, 21-29	6.7	30
627	The analysis of CO2 laser cutting. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>1997</b> , 211, 223-232	2.4	30
626	Laser evaporative heating of surface: simulation of flow field in the laser produced cavity. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 3863-3875	3	30
625	Repetitive laser pulse heating analysis: Pulse parameter variation effects on closed form solution. <i>Applied Surface Science</i> , <b>2006</b> , 252, 2242-2250	6.7	30

624	Oxygen assisted laser cutting mechanism—laminar boundary layer approach including the combustion process. <i>Optics and Laser Technology</i> , <b>1995</b> , 27, 175-184	4.2	30
623	A review on the performance of photovoltaic/thermoelectric hybrid generators. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3365-3394	4.5	30
622	Laser surface modification treatment of aluminum bronze with B4C. <i>Applied Surface Science</i> , <b>2012</b> , 263, 804-809	6.7	29
621	Closed-form and numerical solutions to the laser heating process. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>1998</b> , 212, 141-151	1.3	29
620	Self-cleaning of a hydrophobic surface by a rolling water droplet. <i>Scientific Reports</i> , <b>2019</b> , 9, 5744	4.9	28
619	A Water Droplet Pinning and Heat Transfer Characteristics on an Inclined Hydrophobic Surface. <i>Scientific Reports</i> , <b>2018</b> , 8, 3061	4.9	28
618	Development of a novel solar-based integrated system for desalination with heat recovery. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 1618-1633	5.8	28
617	Phonon radiative transport in silicon—aluminum thin films: Frequency dependent case. <i>International Journal of Thermal Sciences</i> , <b>2012</b> , 57, 54-62	4.1	28
616	Laser control melting of alumina surfaces and thermal stress analysis. <i>Optics and Laser Technology</i> , <b>2011</b> , 43, 858-865	4.2	28
615	Pulsative heating of surfaces. <i>International Journal of Heat and Mass Transfer</i> , <b>1998</b> , 41, 3899-3918	4.9	28
614	Repetitive laser pulse heating with a convective boundary condition at the surface. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 222-231	3	28
613	Laser treatment and PVD TiN coating of Ti—Al—V alloy. <i>Surface and Coatings Technology</i> , <b>2000</b> , 130, 152-157	4.4	28
612	Analytical solution for the heat conduction mechanism appropriate to the laser heating process. <i>International Communications in Heat and Mass Transfer</i> , <b>1993</b> , 20, 545-555	5.8	28
611	Chemo-Mechanical Characteristics of Mud Formed from Environmental Dust Particles in Humid Ambient Air. <i>Scientific Reports</i> , <b>2016</b> , 6, 30253	4.9	28
610	Heat transfer characteristics and internal fluidity of a sessile droplet on hydrophilic and hydrophobic surfaces. <i>Applied Thermal Engineering</i> , <b>2016</b> , 108, 628-640	5.8	28
609	Performance assessment of hybrid power generation systems: Economic and environmental impacts. <i>Energy Conversion and Management</i> , <b>2017</b> , 132, 418-431	10.6	27
608	Thermoelectric generator performance analysis: Influence of pin tapering on the first and second law efficiencies. <i>Energy Conversion and Management</i> , <b>2015</b> , 100, 138-146	10.6	27
607	Analytical investigation into laser pulse heating and thermal stresses. <i>Optics and Laser Technology</i> , <b>2009</b> , 41, 132-139	4.2	27

606	Laser treatment of Ti6Al4V alloy prior to plasma nitriding. <i>Journal of Materials Processing Technology</i> , <b>2000</b> , 103, 304-309	5.3	27
605	Mechanics of dust removal from rotating disk in relation to self-cleaning applications of PV protective cover. <i>Solar Energy</i> , <b>2016</b> , 130, 193-206	6.8	26
604	Multi-objective thermal analysis of a thermoelectric device: Influence of geometric features on device characteristics. <i>Energy</i> , <b>2014</b> , 77, 305-317	7.9	26
603	Laser bending of metal sheet and thermal stress analysis. <i>Optics and Laser Technology</i> , <b>2014</b> , 61, 34-44	4.2	26
602	Laser cutting of Kevlar laminates and thermal stress formed at cutting sections. <i>Optics and Lasers in Engineering</i> , <b>2012</b> , 50, 204-209	4.6	26
601	Comparative study: Mechanical and metallurgical aspects of tailored welded blanks (TWBs). <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 204, 440-450	5.3	26
600	Laser bending of AISI 304 steel sheets: Thermal stress analysis. <i>Optics and Laser Technology</i> , <b>2012</b> , 44, 303-309	4.2	25
599	Entropy analysis of concentric annuli with rotating outer cylinder. <i>Exergy an International Journal</i> , <b>2001</b> , 1, 60-66		25
598	Thermal characteristics of combined thermoelectric generator and refrigeration cycle. <i>Energy Conversion and Management</i> , <b>2014</b> , 83, 42-47	10.6	24
597	Laser cutting of alumina tiles: Heating and stress analysis. <i>Journal of Manufacturing Processes</i> , <b>2013</b> , 15, 14-24	5	24
596	Melting enhancement of a phase change material with presence of a metallic mesh. <i>Applied Thermal Engineering</i> , <b>2015</b> , 79, 163-173	5.8	24
595	A model study for cyclic thermal loading and thermal performance of a thermoelectric generator. <i>International Journal of Energy Research</i> , <b>2014</b> , 38, 1351-1360	4.5	24
594	Laser cutting of thick sheet metals: Residual stress analysis. <i>Optics and Laser Technology</i> , <b>2009</b> , 41, 224-232	4.2	24
593	Laser cutting of 7050 Al alloy reinforced with Al <sub>2</sub> O <sub>3</sub> and B <sub>4</sub> C composites. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2010</b> , 50, 185-193	3.2	24
592	Laser cutting of sharp edge: Thermal stress analysis. <i>Optics and Lasers in Engineering</i> , <b>2010</b> , 48, 10-19	4.6	24
591	Electron kinetic theory approach one- and three-dimensional heating with pulsed laser. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 1925-1936	4.9	24
590	Overall performance assessment of a combined cycle power plant: An exergo-economic analysis. <i>Energy Conversion and Management</i> , <b>2016</b> , 116, 91-100	10.6	23
589	Laser Texturing of Plasma Electrolytically Oxidized Aluminum 6061 Surfaces for Improved Hydrophobicity. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2014</b> , 136,	3.3	23

588	Effect of WC on the residual stress in the laser treated HVOF coating. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 3172-3181	5.3	23
587	Investigation into topping cycle: Thermal efficiency with and without presence of thermoelectric generator. <i>Energy</i> , <b>2011</b> , 36, 4048-4054	7.9	23
586	The closed form solutions for Cattaneo and stress equations due to step input pulse heating. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 3869-3874	2.8	23
585	JET IMPINGEMENT ONTO A HOLE WITH CONSTANT WALL TEMPERATURE. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2003</b> , 43, 843-865	2.3	23
584	Short-pulse laser heating of gold-chromium layers: thermo-elasto-plastic analysis. <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, 1210-1217	3	23
583	Conjugate heat transfer in fully developed laminar pipe flow and thermally induced stresses. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 190, 1091-1104	5.7	23
582	Laser gas assisted treatment of AISI H12 tool steel and corrosion properties. <i>Optics and Lasers in Engineering</i> , <b>2014</b> , 54, 8-13	4.6	22
581	Non-equilibrium energy transport in a thin metallic film: Analytical solution for radiative transport equation. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 454, 15-22	2.8	22
580	Radiative phonon transport in silicon and collisional energy transfer in aluminum films due to laser short-pulse heating: Influence of laser pulse intensity on temperature distribution. <i>Optics and Laser Technology</i> , <b>2012</b> , 44, 43-50	4.2	22
579	Laser cutting of holes in thick sheet metals: Development of stress field. <i>Optics and Lasers in Engineering</i> , <b>2009</b> , 47, 909-916	4.6	22
578	Thermal stresses due to time exponentially decaying laser pulse: elasto-plastic wave propagations. <i>International Journal of Mechanical Sciences</i> , <b>2004</b> , 46, 57-80	5.5	22
577	HVOF coating of Inconel 625 onto stainless and carbon steel surfaces: corrosion and bond testing. <i>Journal of Materials Processing Technology</i> , <b>2004</b> , 155-156, 2051-2055	5.3	22
576	Turbulent boundary layer approach allowing chemical reactions for CO2 laser oxygen-assisted cutting process. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>1994</b> , 208, 275-284	1.3	22
575	Influence of thermalcapillary and buoyant forces on flow characteristics in a droplet on hydrophobic surface. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 102, 239-253	4.1	21
574	Characterization of microplastic deformation produced in 6061-T6 by using laser shock processing. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 71, 109-115	3.2	21
573	Why solidification has an S-shaped history. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	21
572	Laser gas assisted nitriding of alumina surfaces. <i>Surface Engineering</i> , <b>2009</b> , 25, 235-240	2.6	21
571	Laser gas assisted nitriding and tin coating of Ti <sub>6</sub> Al <sub>4</sub> V alloy: Experimental and numerical investigation of mechanical properties. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 1199-1208	5.3	21

570	Electrochemical properties of the laser nitrided surfaces of Ti6Al4V alloy. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 679-685	4.4	21
569	Laser heating including the phase change process and thermal stress generation in relation to drilling. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2003</b> , 217, 977-991	2.4	21
568	Measurement of temperature-dependent reflectivity of Cu and Al in the range 30-1000 degrees C. <i>Measurement Science and Technology</i> , <b>1991</b> , 2, 668-674	2	21
567	Thermal Characteristics of Latent Heat Thermal Storage: Comparison of Aluminum Foam and Mesh Configurations. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 68, 99-116	2.3	20
566	Influence of mud residues on solvent induced crystalized polycarbonate surface used as PV protective cover. <i>Solar Energy</i> , <b>2016</b> , 125, 282-293	6.8	20
565	Laser texturing of zirconia surface with presence of TiC and B 4 C: Surface hydrophobicity, metallurgical, and mechanical characteristics. <i>Ceramics International</i> , <b>2014</b> , 40, 16159-16167	5.1	20
564	Laser control melting of alumina surfaces with presence of B4C particles. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 539, 12-16	5.7	20
563	Laser hole cutting in aluminum foam: Influence of hole diameter on thermal stress. <i>Optics and Lasers in Engineering</i> , <b>2013</b> , 51, 23-29	4.6	20
562	Laser treatment of aluminum surface: Analysis of thermal stress field in the irradiated region. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 77-88	5.3	20
561	Analytical solution of hyperbolic heat conduction equation in relation to laser short-pulse heating. <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 1550-1555	2.8	20
560	Entropy generation in a pipe due to non-Newtonian fluid flow: Constant viscosity case. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2006</b> , 31, 21-29	1	20
559	Development of a new drying correlation for practical applications. <i>International Journal of Energy Research</i> , <b>2002</b> , 26, 245-251	4.5	20
558	HVOF coating and laser treatment: three-point bending tests. <i>Journal of Materials Processing Technology</i> , <b>2005</b> , 164-165, 954-957	5.3	20
557	Analytical solution for thermal stresses during the laser pulse heating process. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2001</b> , 215, 1429-1443	1.3	20
556	Modelling and Experimental Study Into the Laser Assisted Nitriding of Ti-6Al-4V Alloy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 863-874	3.3	20
555	Some aspects of laser heating of engineering materials. <i>Journal of Laser Applications</i> , <b>1996</b> , 8, 197-204	2.1	20
554	Droplet heat transfer on micro-post arrays: Effect of droplet size on droplet thermal characteristics. <i>International Journal of Heat and Fluid Flow</i> , <b>2017</b> , 68, 62-78	2.4	19
553	Water droplet mobility on a hydrophobic surface under a thermal radiative heating. <i>Applied Thermal Engineering</i> , <b>2018</b> , 128, 92-106	5.8	19

552	Laser texturing of Hastelloy C276 alloy surface for improved hydrophobicity and friction coefficient. <i>Optics and Lasers in Engineering</i> , <b>2016</b> , 78, 140-147	4.6	19
551	[INVITED] Laser treatment of Inconel 718 alloy and surface characteristics. <i>Optics and Laser Technology</i> , <b>2016</b> , 78, 153-158	4.2	19
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