

# Bekir S Yilbas

## List of Publications by Year in Descending Order

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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.

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	Transient, Sub-Continuum, Heat Conduction in Irregular Geometries. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2022</b> , 47, 111-119	3.8	
694	Investigation of Spatter Trajectories in an SLM Build Chamber under Argon Gas Flow. <i>Metals</i> , <b>2022</b> , 12, 343	2.3	
693	A Novel Approach for Volumetric Solar Receiver Performance Assessments. <i>Applied Thermal Engineering</i> , <b>2022</b> , 118487	5.8	0
692	Droplet motion on sonically excited hydrophobic meshes.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6759	4.9	2
691	Laser surface processing of Ti6Al4V alloy precoated with hard particles. <i>Optics and Laser Technology</i> , <b>2022</b> , 153, 108277	4.2	0
690	Impacting Droplet Can Mitigate Dust from PDMS Micro-Post Array Surfaces. <i>Coatings</i> , <b>2021</b> , 11, 1377	2.9	
689	Impacting Water Droplets Can Alleviate Dust from Slanted Hydrophobic Surfaces. <i>Langmuir</i> , <b>2021</b> , 37, 4355-4369	4	1
688	Experimental and Model Studies of Various Size Water Droplet Impacting on a Hydrophobic Surface. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	2.1	1
687	On the Mechanism of Human Saliva Interaction with Environmental Dust in Relation to Spreading of Viruses. <i>Langmuir</i> , <b>2021</b> , 37, 4714-4726	4	1
686	Axisymmetric stagnation point flow on linearly stretching surfaces and heat transfer: Nanofluid with variable physical properties. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 24, 100839	5.6	7
685	Solution Crystallization of Polycarbonate Surfaces for Hydrophobic State: Water Droplet Dynamics and Life Cycle Assessment towards Self-Cleaning Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
684	Sliding Dynamics of a Water Droplet on Silicon Oil Film Surface. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2021</b> , 143,	2.1	2
683	Estimating Entropy Generation Rate for Ballistic-Diffusive Phonon Transport Using Effective Thermal Conductivity. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2021</b> , 46, 321-327	3.8	
682	Droplet Rolling Dynamics over a Hydrophobic Surface with a Minute Width Channel. <i>Langmuir</i> , <b>2021</b> , 37, 7851-7861	4	0
681	A microchannel flow with presence of micro-post arrays on channel top wall. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 164, 106883	4.1	1
680	On the mechanism of droplet rolling and spinning in inclined hydrophobic plates in wedge with different wetting states. <i>Scientific Reports</i> , <b>2021</b> , 11, 15086	4.9	1
679	Dust mitigation by rolling water droplets from hydrophobic surfaces. <i>Surfaces and Interfaces</i> , <b>2021</b> , 22, 100825	4.1	3

678	Dust mitigation from inclined hydrophobic and hydrophilic surfaces under electrostatic repulsion. <i>Journal of Electrostatics</i> , <b>2021</b> , 109, 103536	1.7	0
677	Droplet stretching between hydrophobic and hydrophilic plates: Droplet fluid heating. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 120, 105010	5.8	
676	Methods for the Determination of Nanofluid Optical Properties: A Review. <i>International Journal of Thermophysics</i> , <b>2021</b> , 42, 1	2.1	3
675	Hydrophobized metallic meshes can ease water droplet rolling. <i>Soft Matter</i> , <b>2021</b> , 17, 7311-7321	3.6	1
674	Thermal Stress Development in Low Dimensional Silicon Film: An Analytical Approach. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2021</b> , 46, 205-219	3.8	0
673	Entropy Generation Rate for Stationary Ballistic-Diffusive Heat Conduction in a Rectangular Flake. <i>Journal of Computational and Theoretical Transport</i> , <b>2021</b> , 50, 87-101	0.5	0
672	Exergo-economic optimization of concentrated solar photovoltaic and thermoelectric hybrid generator. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 1035-1052	4.1	2
671	Thermo-economic optimization of a hybrid photovoltaic and thermoelectric power generator using overall performance index. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1815-1829	4.1	4
670	A novel method for dust mitigation from PV cell surfaces. <i>Solar Energy</i> , <b>2021</b> , 225, 708-717	6.8	1
669	Water droplet can mitigate dust from hydrophobized micro-post array surfaces. <i>Scientific Reports</i> , <b>2021</b> , 11, 18361	4.9	0
668	Localized droplet heating by hydrophobic pins: Influence of pin area and droplet size on heat transfer. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101261	5.6	0
667	Thermal conductivity assessment in a low dimension structure. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105581	5.8	
666	Avalanche effect for chemically modified dust mitigation from surfaces. <i>Scientific Reports</i> , <b>2021</b> , 11, 8174.9	4.9	2
665	Dust removal from a hydrophobic surface by rolling fizzy water droplets.. <i>RSC Advances</i> , <b>2020</b> , 10, 19811-19821	3.7	1
664	Additive manufacturing of Ti-alloy: Thermal analysis and assessment of properties. <i>Advances in Mechanical Engineering</i> , <b>2020</b> , 12, 168781402093306	1.2	0
663	Heating Enhancement of a Droplet on a Superhydrophobic Surface. <i>Scientific Reports</i> , <b>2020</b> , 10, 4594	4.9	3
662	Life cycle analysis for laser welding of alloys. <i>Optics and Laser Technology</i> , <b>2020</b> , 126, 106064	4.2	5
661	A novel renewable energy-based integrated system with thermoelectric generators for a net-zero energy house. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 3458-3477	4.5	9

660	Influence of Hydrophobic Fin Configuration in Thermal System in Relation to Electronic Device Cooling Applications. <i>Energies</i> , <b>2020</b> , 13, 1631	3.1	0
659	Droplet Impacting on a Hydrophobic Surface: Influence of Surface Wetting State on Droplet Behavior. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	2.1	3
658	Heating Analysis of a Water Droplet in Between Multi-Wall Hydrophobic Surfaces. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2020</b> , 12,	1.9	1
657	Three-Dimensional Ballistic-Diffusive Heat Transport in Silicon: Transient Response and Thermal Conductivity. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2020</b> , 45, 431-441	3.8	2
656	Solar energy harvesting and self-cleaning of surfaces by an impacting water droplet. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 388-401	4.5	9
655	Adhesion of a water droplet on inclined hydrophilic surface and internal fluidity. <i>International Journal of Adhesion and Adhesives</i> , <b>2020</b> , 96, 102464	3.4	3
654	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
653	Solar energy harvesting and a water droplet cleaning of micropost arrays surfaces. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 2072-2083	4.5	4
652	Heating of a water droplet on inclined transparent polydimethylsiloxane (PDMS) surface. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 1503-1522	2.2	
651	Additive manufacturing of layer of Ti6Al4V alloy: morphology and metallurgical properties. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-9	0.8	7
650	Droplet Rolling and Spinning in V-Shaped Hydrophobic Surfaces for Environmental Dust Mitigation. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
649	Carbonated water droplets on a dusty hydrophobic surface. <i>Soft Matter</i> , <b>2020</b> , 16, 7144-7155	3.6	1
648	Thermally excited quantum dot and energy transfer in thin films. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 595, 412346	2.8	
647	Environmental dust repelling from hydrophilic/hydrophobic surfaces under sonic excitations. <i>Scientific Reports</i> , <b>2020</b> , 10, 19348	4.9	2
646	Heating analysis of a droplet on stretchable hydrophilic surface. <i>International Journal of Heat and Fluid Flow</i> , <b>2020</b> , 85, 108659	2.4	
645	Laser treatment of SiAlON and surface characteristics. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 56, 1230-1241	5	2
644	Carbonated Water Droplet Can Ease Dust Mitigation from Hydrophobic Surfaces. <i>Langmuir</i> , <b>2020</b> , 36, 10504-10518	4	8
643	Adhesion characteristics of solution treated environmental dust. <i>Scientific Reports</i> , <b>2020</b> , 10, 13812	4.9	4

642	Droplet fluid infusion into a dust layer in relation to self-cleaning.. <i>RSC Advances</i> , <b>2020</b> , 10, 32034-32042	3.7	4
641	Environmental dust repelling from hydrophobic and hydrophilic surfaces under vibrational excitation. <i>Scientific Reports</i> , <b>2020</b> , 10, 14346	4.9	2
640	A water droplet-cleaning of a dusty hydrophobic surface: influence of dust layer thickness on droplet dynamics. <i>Scientific Reports</i> , <b>2020</b> , 10, 14746	4.9	3
639	Heat Transfer and Flow Characteristics Inside Droplet Formed on Water Surface. <i>Heat Transfer Engineering</i> , <b>2020</b> , 41, 961-981	1.7	
638	Droplet on oil impregnated surface: Temperature and velocity fields. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 146, 106054	4.1	7
637	Water droplet on inclined dusty hydrophobic surface: influence of droplet volume on environmental dust particles removal.. <i>RSC Advances</i> , <b>2019</b> , 9, 3582-3596	3.7	12
636	Thermal and flow analysis of a droplet heating by multi-walls. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 138, 247-262	4.1	7
635	Environmental Dust Particles Repelling from A Hydrophobic Surface under Electrostatic Influence. <i>Scientific Reports</i> , <b>2019</b> , 9, 8703	4.9	9
634	Microscale Thermal Energy Transfer Between Thin Films with Vacuum Gap at Interface. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2019</b> , 44, 123-142	3.8	2
633	Wetting Characteristics of Surfaces <b>2019</b> , 11-44		1
632	Surfaces for Self-Cleaning <b>2019</b> , 45-98		12
631	Environmental Dust on Surfaces <b>2019</b> , 99-132		
630	Water-Droplet Dynamics and Heat Transfer <b>2019</b> , 133-284		
629	Dust Effects on Surfaces in Humid Environment and Applications <b>2019</b> , 285-374		
628	Application of Water Droplet for Self-Cleaning of Surfaces <b>2019</b> , 375-421		1
627	Thermal and Flow Behavior of a Droplet Fluid Wetted by Parallel Hydrophobic Walls. <i>International Journal of Thermophysics</i> , <b>2019</b> , 40, 1	2.1	
626	Heat-Transfer Enhancement Incorporating Fin-Like Structures Inside Droplet on Hydrophobic Surface. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	2
625	Self-cleaning of a hydrophobic surface by a rolling water droplet. <i>Scientific Reports</i> , <b>2019</b> , 9, 5744	4.9	28

624	Laser processing of Ti6Al4V alloy: wetting state of surface and environmental dust effects. <i>Heliyon</i> , <b>2019</b> , 5, e01211	3.6	6
623	Crossplane Phonon Transport and Thermal Boundary Resistance Across Thin Films Pair. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2019</b> , 33, 139-153	1.3	1
622	Microscale Thermal Energy Transfer Over a Combined System of Thin Films: Analytical Approach. <i>Journal of Computational and Theoretical Transport</i> , <b>2019</b> , 48, 89-108	0.5	3
621	Stretchable hydrophobic surfaces and droplet heating. <i>International Journal of Heat and Fluid Flow</i> , <b>2019</b> , 78, 108435	2.4	1
620	Thermal Assessment of Selective Solar Troughs. <i>Energies</i> , <b>2019</b> , 12, 3130	3.1	
619	Stretchable Hydrophobic Surfaces and Self-Cleaning Applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 14697	4.9	12
618	Entropy analysis for thermally disturbed thin films. <i>International Journal of Exergy</i> , <b>2019</b> , 30, 86	1.2	
617	Thermal Energy Transport Across Combined Films: Thermal Characteristics. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2019</b> , 44, 439-453	3.8	
616	Laser Cutting of Holes in Inconel 803 Alloy and Analysis of Thermal Stress Field. <i>Machining Science and Technology</i> , <b>2019</b> , 23, 95-117	2	4
615	Phonon transfer in silicon-diamond films: Influence of thermal boundary resistance on acoustic phonon intensities. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 556, 82-96	2.8	1
614	Why environmental dust influences solar energy harvesting. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 4-8	4.5	2
613	Laser fabricated tungsten oxide surface for solar energy harvesting and dust effects. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 191, 190-198	6.4	3
612	Why self-cleaning is important for solar thermal receivers?. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 616-620	4.5	4
611	Sol-gel coating of colloidal particles deposited glass surface pertinent to self-cleaning applications. <i>Progress in Organic Coatings</i> , <b>2019</b> , 127, 202-210	4.8	4
610	Heat and flow analysis of a water droplet on hydrophobic and hydrophilic phase change material. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 122, 749-764	4.9	12
609	A mobile thermal battery resembling a solar receiver: Innovative design and performance assessment. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 2766-2780	4.5	1
608	Novel Analytical Approach for Solution of Radiative Transport Equation in Thin Films. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2018</b> , 32, 1104-1108	1.3	2
607	Thermal analysis of the laser cutting process <b>2018</b> , 5-51		0

606 Analytical methods in laser cutting **2018**, 53-147

605 Laser cutting quality assessment and numerical methods for modeling of cutting **2018**, 149-203

604 Some applications of laser cutting **2018**, 205-297

1

603 Water Droplet Dynamics on a Hydrophobic Surface in Relation to the Self-Cleaning of Environmental Dust. *Scientific Reports*, **2018**, 8, 2984

4.9 41

602 A Water Droplet Pinning and Heat Transfer Characteristics on an Inclined Hydrophobic Surface. *Scientific Reports*, **2018**, 8, 3061

4.9 28

601 Hydrophobic and optical characteristics of graphene and graphene oxide films transferred onto functionalized silica particles deposited glass surface. *Applied Surface Science*, **2018**, 442, 213-223

6.7 17

600 Assessment of optical transmittance of oil impregnated and non-wetted surfaces in outdoor environment towards solar energy harvesting. *Solar Energy*, **2018**, 163, 25-31

6.8 8

599 A role of lasers in energy materials and future perspectives. *International Journal of Energy Research*, **2018**, 42, 325-328

4.5

598 Droplet Heat Transfer on Micropost Arrays With Hydrophobic and Hydrophilic Characteristics. *Journal of Heat Transfer*, **2018**, 140,

1.8 4

597 Reversible exchange of wetting state of a hydrophobic surface phase change material coating.. *RSC Advances*, **2018**, 8, 938-947

3.7 9

596 Effect of environmental dust particles on laser textured yttria-stabilized zirconia surface in humid air ambient. *Optics and Laser Technology*, **2018**, 101, 388-396

4.2 2

595 Droplet dynamics on a hydrophobic surface coated with N-octadecane phase change material. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 546, 28-39

5.1 8

594 Semi-Analytical Solution of Equation for Phonon Radiative Transport Pertinent to Thin Films. *Journal of Thermophysics and Heat Transfer*, **2018**, 32, 316-325

1.3 2

593 Water droplet mobility on a hydrophobic surface under a thermal radiative heating. *Applied Thermal Engineering*, **2018**, 128, 92-106

5.8 19

592 Development of a novel solar-based integrated system for desalination with heat recovery. *Applied Thermal Engineering*, **2018**, 129, 1618-1633

5.8 28

591 Effect of Accumulation of Environmental Dust and Subsequent Mud Formation on Textural, Chemical, and Optical Properties of Silicon Wafers for Photovoltaic Cells. *IEEE Journal of Photovoltaics*, **2018**, 8, 1274-1280

3.7 5

590 2.26 Dust Repellent Materials **2018**, 832-880

589 Heat transfer and internal fluidity a droplet located in between parallel hydrophobic surfaces with varying spacing. *International Journal of Heat and Fluid Flow*, **2018**, 73, 1-15

2.4 4

588 Analysis of Energy Transport Equations at Micro/Nanoscales **2018**, 75-180

587 Analytical Treatment of Phonon Transport in Thin Films **2018**, 181-224

586 Thermal Boundary Resistance for Cross-Plane Transport and the Presence of Minute Vacuum Gap at Interface **2018**, 307-375

585 Phonon Radiative Transfer in Curvilinear Coordinate Systems **2018**, 377-399

584 Laser texturing of Inconel 718 alloy surface: Influence of environmental dust in humid air ambient. *Optics and Laser Technology*, **2018**, 108, 346-354 4.2 7

583 Pulsative heating of silicon thin film resembling laser pulses. *Optics and Laser Technology*, **2018**, 108, 502-509 4.2

582 Innovative Design of a Thermal Battery: Influence of Carbon Nanotubes Concentration on Thermal Storage Characteristics. *International Journal of Thermophysics*, **2018**, 39, 1 2.1

581 Ferro-Liquid Droplet Heat Transfer on Water Surface: Effect of Droplet Volume on Droplet Fluidity. *Journal of Thermophysics and Heat Transfer*, **2018**, 32, 1072-1087 1.3 2

580 A New Approach for Semi-Analytical Solution of Cross-plane Phonon Transport in SiliconDiamond Thin Films. *Journal of Non-Equilibrium Thermodynamics*, **2018**, 43, 359-372 3.8 3

579 Laser gas assisted nitriding and characterization of tungsten surface. *Optics and Laser Technology*, **2018**, 107, 274-280 4.2 4

578 Development, analysis and assessment of solar energy-based multigeneration system with thermoelectric generator. *Energy Conversion and Management*, **2018**, 156, 746-756 10.6 49

577 Phonon transport in a curved aluminum thin film due to laser short pulse irradiation. *Optics and Laser Technology*, **2018**, 101, 107-115 4.2 9

576 Laser gas assisted texturing and formation of nitride and oxynitride compounds on alumina surface: Surface response to environmental dust. *Optics and Lasers in Engineering*, **2018**, 102, 1-9 4.6 8

575 Segmented thermoelectric generator: exponential area variation in leg. *International Journal of Energy Research*, **2018**, 42, 477-489 4.5 11

574 Thermal Disturbance of Thin Films Pair: Cross-Plane Thermal Energy Transfer. *Journal of Computational and Theoretical Transport*, **2018**, 47, 152-186 0.5

573 Environmental dust removal from inclined hydrophobic glass surface: avalanche influence on dynamics of dust particles.. *RSC Advances*, **2018**, 8, 33775-33785 3.7 9

572 Mobility of A Water Droplet on Liquid Phase of N-Octadecane Coated Hydrophobic Surface. *Scientific Reports*, **2018**, 8, 15060 4.9 1

571 Heat Transfer Applications in One- and Two-Dimensional Thin Films **2018**, 225-306



570 2.25 Hydrophobic Materials **2018**, 796-831

569 2.28 Anti-Corrosive Materials **2018**, 913-943

568 Thermal Characteristics and Phonon Transport in Diamond and Silicon Thin Films. *Journal of Thermophysics and Heat Transfer*, **2017**, 31, 56-68 1.3

567 Thermal Analysis of Mobile Thermal Battery with Aluminum Mesh Subjected to Solar-Concentrated Heating. *Journal of Energy Engineering - ASCE*, **2017**, 143, 04016022 1.7 1

566 Effect of mud drying temperature on surface characteristics of a polycarbonate PV protective cover. *Solar Energy*, **2017**, 143, 63-72 6.8 12

565 Flow Field Inside a Sessile Droplet on a Hydrophobic Surface in Relation to Self Cleaning Applications of Dust Particles. *Journal of Heat Transfer*, **2017**, 139, 1.8 10

564 Heat transfer enhancement of phase change materials for thermal energy storage applications: A critical review. *Renewable and Sustainable Energy Reviews*, **2017**, 74, 26-50 16.2 284

563 Laser cutting of various materials: Kerf width size analysis and life cycle assessment of cutting process. *Optics and Laser Technology*, **2017**, 93, 67-73 4.2 41

562 Innovative design of a solar volumetric receiver: Arrangements of absorbing block configurations. *Solar Energy*, **2017**, 146, 105-112 6.8 6

561 Environmental dust effects on aluminum surfaces in humid air ambient. *Scientific Reports*, **2017**, 7, 45999 4.9 13

560 Surface Engineering towards Self-Cleaning Applications: Laser Textured Silicon Surface. *Procedia Engineering*, **2017**, 184, 716-724 15

559 Environmental mud adhesion on optical glass surface: Effect of mud drying temperature on surface properties. *Solar Energy*, **2017**, 150, 73-82 6.8 1

558 Performance assessment of hybrid power generation systems: Economic and environmental impacts. *Energy Conversion and Management*, **2017**, 132, 418-431 10.6 27

557 Innovative design of a thermoelectric generator with extended and segmented pin configurations. *Applied Energy*, **2017**, 187, 367-379 10.7 33

556 Silicone oil impregnated nano silica modified glass surface and influence of environmental dust particles on optical transmittance. *RSC Advances*, **2017**, 7, 29762-29771 3.7 17

555 Analysis of environmental dust and mud adhesion on aluminum surface in relation to solar energy harvesting. *Solar Energy*, **2017**, 153, 590-599 6.8 11

554 Innovative design of a thermoelectric generator of extended legs with tapering and segmented pin configuration: Thermal performance analysis. *Applied Thermal Engineering*, **2017**, 123, 74-91 5.8 16

553 Laser circular cutting of Kevlar sheets: Analysis of thermal stress field and assessment of cutting geometry. *Optics and Laser Technology*, **2017**, 96, 180-189 4.2 6

552	Heat Transfer and Fluid Flow Characteristics in a Sessile Droplet on Oil-Impregnated Surface Under Thermal Disturbance. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	12
551	Energy Transport across the Thin Films Pair with Presence of Minute Vacuum Gap at Interface. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2017</b> , 42,	3.8	4
550	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
549	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
548	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
547	Thermal transport in thin dielectric films with minute size aluminum dot in relation to microelectronics. <i>Applied Thermal Engineering</i> , <b>2017</b> , 127, 1025-1035	5.8	8
546	Laser Nitriding of the Newly Developed Ti-20Nb-13Zr at.% Biomaterial Alloy to Enhance Its Mechanical and Corrosion Properties in Simulated Body Fluid. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 5553-5562	1.6	17
545	3.7 HVOF Coating of Nickel Based Alloys: Surface and Mechanical Characteristics <b>2017</b> , 96-110		3
544	3.11 Gas Nitriding of H13 Tool Steel Used for Extrusion Dies: Numerical and Experimental Investigation <b>2017</b> , 158-177		0
543	Internal flow and heat transfer in a droplet located on a superhydrophobic surface. <i>International Journal of Thermal Sciences</i> , <b>2017</b> , 121, 213-227	4.1	12
542	Analysis and Assessment of A Biomass Energy-Based Multigeneration System with Thermoelectric Generators. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 10901-10915	4.1	5
541	Characteristics of a solar selective absorber surface subjected to environmental dust in humid air ambient. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 172, 186-194	6.4	7
540	Phonon Transport in Curved Thin Film: Effect of Film Curvature and Radius on Transport Characteristics. <i>Journal of Computational and Theoretical Transport</i> , <b>2017</b> , 46, 283-306	0.5	2
539	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
538	A new dimension in self-cleaning of solar energy harvesting devices. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 1944-1947	4.5	2
537	Characteristics of oil impregnated hydrophobic glass surfaces in relation to self-cleaning of environmental dust particles. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 171, 8-15	6.4	15
536	Phonon transport across multi-layered structure subjected to laser short irradiation pulse. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	2
535	Laser gas assisted treatment of steel 309: Corrosion and scratch resistance of treated surface. <i>Optics and Laser Technology</i> , <b>2017</b> , 95, 157-164	4.2	

534	Water Droplet Adhesion on Hydrophobic Surfaces: Influence of Droplet Size and Inclination Angle of Surface on Adhesion Force. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	2.1	7
533	A Solar Volumetric Receiver: Influence of Absorbing Cells Configuration on Device Thermal Performance. <i>International Journal of Thermophysics</i> , <b>2017</b> , 38, 1	2.1	11
532	Configuration of segmented leg for the enhanced performance of segmented thermoelectric generator. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 274-288	4.5	16
531	Effect of graphene film on laser textured alumina surface characteristics. <i>Ceramics International</i> , <b>2017</b> , 43, 2012-2021	5.1	7
530	Texture Analysis of Hydrophobic Polycarbonate and Polydimethylsiloxane Surfaces via Persistent Homology. <i>Coatings</i> , <b>2017</b> , 7, 139	2.9	5
529	1.12 Laser Machining Processes <b>2017</b> , 344-363		0
528	2.5 Laser Beam Processing for Surface Modifications <b>2017</b> , 137-153		1
527	3.5 Laser Texturing of Materials and Surface Hydrophobicity <b>2017</b> , 71-85		
526	Non-equilibrium energy transport and entropy production due to laser short-pulse irradiation. <i>Canadian Journal of Physics</i> , <b>2016</b> , 94, 130-138	1.1	2
525	Laser gas assisted texturing of alumina surfaces and effects of environmental dry mud solution on surface characteristics. <i>Ceramics International</i> , <b>2016</b> , 42, 396-404	5.1	7
524	Coatings of nanocrystalline metallic wires on steel substrate: mechanical characteristics of coating layer. <i>Canadian Metallurgical Quarterly</i> , <b>2016</b> , 55, 295-302	0.9	
523	Replication of laser-textured alumina surfaces by polydimethylsiloxane: Improvement of surface hydrophobicity. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	17
522	Thermal characteristics of a skutterudite thermoelectric generator: influence of device pin length on efficiency and output power. <i>International Journal of Exergy</i> , <b>2016</b> , 20, 343	1.2	2
521	Thermal transport across a pair of thin silicon films with the presence of minute vacuum gap: effect of film thickness on thermal characteristics. <i>Canadian Journal of Physics</i> , <b>2016</b> , 94, 933-944	1.1	4
520	System development for solar energy-based hydrogen production and on-site combustion in HCCI engine for power generation. <i>Solar Energy</i> , <b>2016</b> , 136, 65-77	6.8	15
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517	Influence of pin material configurations on thermoelectric generator performance. <i>Energy Conversion and Management</i> , <b>2016</b> , 129, 157-167	10.6	12

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515	Laser treatment of aluminum composite and investigation of thermal stress field. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 86, 3547-3561	3.2	4
514	A thermal battery mimicking a concentrated volumetric solar receiver. <i>Applied Energy</i> , <b>2016</b> , 175, 16-30	10.7	14
513	Segmented thermoelectric generator: Influence of pin shape configuration on the device performance. <i>Energy</i> , <b>2016</b> , 111, 439-452	7.9	18
512	Solvent-induced crystallization of a polycarbonate surface and texture copying by polydimethylsiloxane for improved surface hydrophobicity. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	15
511	Laser surface treatment of aluminum composite: surface characteristics. <i>Science and Engineering of Composite Materials</i> , <b>2016</b> , 23, 495-503	1.5	3
510	Laser gas assisted nitriding and sol-gel coating Of alumina surfaces: Effect Of environmental dust on surfaces. <i>Surface and Coatings Technology</i> , <b>2016</b> , 289, 11-22	4.4	13
509	Laser treatment of dual matrix cast iron with presence of WC particles at the surface: Influence of self-annealing on stress fields. <i>Optics and Laser Technology</i> , <b>2016</b> , 76, 6-18	4.2	6
508	Laser treatment of a neodymium magnet and analysis of surface characteristics. <i>Optics and Laser Technology</i> , <b>2016</b> , 82, 191-198	4.2	1
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506	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
505	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
504	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
503	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
502	Thermal characteristics of n-octadecane and carbon nanotubes mixture. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 646-655	5.8	4
501	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
500	[INVITED] Laser gas assisted treatment of Ti-alloy: Analysis of surface characteristics. <i>Optics and Laser Technology</i> , <b>2016</b> , 78, 159-166	4.2	8
499	[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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423	Thermal Stresses in Micro- and Nanostructures <b>2014</b> , 21-47		
422	Laser Treatment of Steel Surfaces: Numerical and Experimental Investigations of Temperature and Stress Fields <b>2014</b> , 25-46		5
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