Ishwar K Puri

List of Publications by Year
in descending order

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254	6,279	61984	114465
papers	citations	43 h-index	63 g-index

258	258	258	5031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extinction of diffusion flames burning diluted methane and diluted propane in diluted air. Combustion and Flame, 1986, 65, 137-150.	5.2	188
2	Heat transfer augmentation using a magnetic fluid under the influence of a line dipole. Journal of Magnetism and Magnetic Materials, 2004, 271, 63-73.	2.3	184
3	A comparison between numerical calculations and experimental measurements of the structure of a counterflow diffusion flame burning diluted methane in diluted air. Proceedings of the Combustion Institute, 1988, 21, 1783-1792.	0.3	165
4	The Development of Pseudocapacitor Electrodes and Devices with High Active Mass Loading. Advanced Energy Materials, 2020, 10, 1903848.	19.5	152
5	Analyzing ferrofluid transport for magnetic drug targeting. Journal of Magnetism and Magnetic Materials, 2005, 289, 331-334.	2.3	111
6	A Comparison Between Numerical Calculations and Experimental Measurements of the Structure of a Counterflow Methane-Air Diffusion Flame. Combustion Science and Technology, 1987, 56, 1-22.	2.3	102
7	Mathematical model for the cancer stem cell hypothesis. Cell Proliferation, 2006, 39, 3-14.	5.3	100
8	Flame-vortex dynamics in an inverse partially premixed combustor: The Froude number effects. Combustion and Flame, 1997, 111, 276-295.	5.2	87
9	The structure of triple flames stabilized on a slot burner. Combustion and Flame, 1999, 119, 23-40.	5.2	87
10	Analytical model for the magnetophoretic capture of magnetic microspheres in microfluidic devices. Journal of Magnetism and Magnetic Materials, 2008, 320, 1398-1405.	2.3	86
11	A model for catalytic growth of carbon nanotubes. Journal Physics D: Applied Physics, 2008, 41, 065304.	2.8	85
12	An experimental and numerical investigation of n-heptane/air counterflow partially premixed flames and emission of NOx and PAH species. Combustion and Flame, 2006, 145, 740-764.	5.2	84
13	The effects of magnetic nanoparticle properties on magnetic fluid hyperthermia. Journal of Applied Physics, 2010, 108, .	2.5	82
14	Modeling of thermochemical energy storage by salt hydrates. International Journal of Heat and Mass Transfer, 2010, 53, 5700-5706.	4.8	81
15	Thermal transport across nanoscale solid-fluid interfaces. Applied Physics Letters, 2008, 92, .	3.3	79
16	Magnetic microsphere-based mixers for microdroplets. Physics of Fluids, 2009, 21, .	4.0	76
17	Field measurements of soot volume fractions in laminar partially premixed coflow ethylene/air flames. Combustion and Flame, 2004, 138, 362-372.	5.2	75
18	Heat conduction across a solid-solid interface: Understanding nanoscale interfacial effects on thermal resistance. Applied Physics Letters, 2011, 99, .	3.3	75

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19	High areal capacitance of Fe₃O₄â€decorated carbon nanotubes for supercapacitor electrodes. , 2019, 1, 124-133.		74
20	Temperature measurements in steady two-dimensional partially premixed flames using laser interferometric holography. Combustion and Flame, 2000, 120, 318-332.	5.2	73
21	Thermomagnetic convection in a square enclosure using a line dipole. Physics of Fluids, 2004, 16, 2228-2236.	4.0	73
22	Experimental and theoretical investigation of partially premixed diffusion flames at extinction. Combustion and Flame, 1985, 61, 237-249.	5.2	72
23	A scaling analysis to characterize thermomagnetic convection. International Journal of Heat and Mass Transfer, 2005, 48, 3485-3492.	4.8	66
24	Single magnetic particle dynamics in a microchannel. Physics of Fluids, 2007, 19, .	4.0	63
25	Parametric investigation of heating due to magnetic fluid hyperthermia in a tumor with blood perfusion. Journal of Magnetism and Magnetic Materials, 2011, 323, 708-716.	2.3	62
26	Molecular simulation of the carbon nanotube growth mode during catalytic synthesis. Applied Physics Letters, 2008, 92, 233121.	3.3	59
27	Gravity effects on triple flames: Flame structure and flow instability. Physics of Fluids, 1999, 11, 3449-3464.	4.0	58
28	Effect of varying composition on temperature reconstructions obtained from refractive index measurements in flames. Combustion and Flame, 2002, 128, 121-132.	5.2	58
29	Role of hydrophobicity in bacterial adherence to carbon nanostructures and biofilm formation. Biofouling, 2010, 26, 333-339.	2.2	58
30	Molecular simulation of thermal transport across hydrophilic interfaces. Chemical Physics Letters, 2008, 467, 110-113.	2.6	56
31	Thermal conductivity reduction through isotope substitution in nanomaterials: predictions from an analytical classical model and nonequilibrium molecular dynamics simulations. Nanoscale, 2011, 3, 3714.	5.6	54
32	MnFe2O4-coated carbon nanotubes with enhanced microwave absorption: Effect of CNT content and hydrothermal reaction time. Diamond and Related Materials, 2019, 96, 31-43.	3.9	54
33	Mathematical Modeling for the Pathogenesis of Alzheimer's Disease. PLoS ONE, 2010, 5, e15176.	2.5	54
34	Microfluidic transport in magnetic MEMS and bioMEMS. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 382-399.	6.1	53
35	Characteristics of lifted triple flames stabilized in the near field of a partially premixed axisymmetric jet. Proceedings of the Combustion Institute, 2002, 29, 1565-1572.	3.9	52
36	Liftoff characteristics of partially premixed flames under normal and microgravity conditions. Combustion and Flame, 2005, 143, 159-173.	5.2	52

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37	Magnetic separation from superparamagnetic particle suspensions. Journal of Magnetism and Magnetic Materials, 2009, 321, 2251-2256.	2.3	52
38	Flame synthesis of carbon nanostructures on stainless steel anodes for use in microbial fuel cells. Journal of Power Sources, 2011, 196, 5829-5834.	7.8	50
39	Flame synthesis of superhydrophobic amorphous carbon surfaces. Carbon, 2007, 45, 1702-1706.	10.3	48
40	Hybrid mathematical model of glioma progression. Cell Proliferation, 2009, 42, 637-646.	5.3	48
41	Influence of natural and anthropogenic carbon dioxide sequestration on global warming. Ecological Modelling, 2012, 235-236, 1-7.	2.5	48
42	SARS-CoV-2 detection with aptamer-functionalized gold nanoparticles. Talanta, 2022, 236, 122841.	5.5	48
43	Rapid Magnetic 3D Printing of Cellular Structures with MCF-7 Cell Inks. Research, 2019, 2019, 9854593.	5.7	46
44	Gravity effects on steady two-dimensional partially premixed methaneâ€“air flames. Combustion and Flame, 1999, 118, 91-107.	5.2	45
45	An experimental and numerical investigation of the structure of steady two-dimensional partially premixed methane-air flames. Proceedings of the Combustion Institute, 1998, 27, 625-632.	0.3	44
46	Particle Transport in Therapeutic Magnetic Fields. Annual Review of Fluid Mechanics, 2014, 46, 407-440.	25.0	44
47	Field-Assisted Self-Assembly of Superparamagnetic Nanoparticles for Biomedical, MEMS and BioMEMS Applications. Advances in Applied Mechanics, 2007, 41, 293-335.	2.3	42
48	Influence of cooling architecture on data center power consumption. Energy, 2019, 183, 525-535.	8.8	42
49	Preferential ion and water intake using charged carbon nanotubes. Chemical Physics Letters, 2007, 434, 292-296.	2.6	40
50	Soft polymer magnetic nanocomposites: microstructure patterning by magnetophoretic transport and self-assembly. Soft Matter, 2013, 9, 2024-2029.	2.7	39
51	Triple flame propagation and stabilization in a laminar axisymmetric jet. Combustion Theory and Modelling, 2004, 8, 293-314.	1.9	38
52	Hydrogen Storage in Carbon Nanostructures: Possibilities and Challenges for Fundamental Molecular Simulations. Proceedings of the IEEE, 2006, 94, 1806-1814.	21.3	38
53	Modifying thermal transport in electrically conducting polymers: Effects of stretching and combining polymer chains. Journal of Chemical Physics, 2012, 136, 044901.	3.0	38
54	Contribution of curvature to flame-stretch effects on premixed flames. Combustion and Flame, 2001, 126, 1640-1654.	5.2	37

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55	Mathematical model for chemotherapeutic drug efficacy in arresting tumour growth based on the cancer stem cell hypothesis. Cell Proliferation, 2007, 40, 338-354.	5.3	37
56	Liftoff and extinction characteristics of fuel- and air-stream-diluted methaneâ€“air flames. Combustion and Flame, 2007, 149, 340-352.	5.2	37
57	Modeling temperature distribution and power consumption in IT server enclosures with row-based cooling architectures. Applied Energy, 2020, 261, 114355.	10.1	37
58	Unsteady nanoscale thermal transport across a solid-fluid interface. Journal of Applied Physics, 2008, 104, .	2.5	36
59	On the similitude between lifted and burner-stabilized triple flames: a numerical and experimental investigation. Combustion and Flame, 2001, 124, 311-325.	5.2	34
60	Second law analysis of convective droplet burning. International Journal of Heat and Mass Transfer, 1992, 35, 2571-2578.	4.8	33
61	On Extension of â€œHeatlineâ€•and â€œMasslineâ€•Concepts to Reacting Flows Through Use of Conserved Scalars. Journal of Heat Transfer, 2002, 124, 791-799.	2.1	33
62	A detailed model for the flame synthesis of carbon nanotubes and nanofibers. Proceedings of the Combustion Institute, 2007, 31, 1821-1829.	3.9	33
63	Thermal transport through a fluidâ€“solid interface. Chemical Physics Letters, 2009, 476, 267-270.	2.6	32
64	Low-temperature synthesis of manganese oxideâ€“carbon nanotube-enhanced microwave-absorbing nanocomposites. Journal of Materials Science, 2018, 53, 16288-16302.	3.7	32
65	Numerical simulation of stoichiometric premixed flames burning CH3Cl / CH4 / air mixtures at atmospheric pressure with a full and short reaction mechanism and comparison of the flame speeds with experimental results. Combustion and Flame, 1993, 92, 419-439.	5.2	31
66	Gravity, radiation, and coflow effects on partially premixed flames. Physics of Fluids, 2004, 16, 2963-2974.	4.0	31
67	Flame synthesis of carbon nanofibres and nanofibre composites containing encapsulated metal particles. Nanotechnology, 2004, 15, 264-268.	2.6	31
68	Field-induced self-assembled ferrofluid aggregation in pulsatile flow. Physics of Fluids, 2005, 17, 097104.	4.0	30
69	Collaborative Dual-Degree Programs and Value Added for Students. Journal of Studies in International Education, 2012, 16, 40-61.	3.2	30
70	A gray-box model for real-time transient temperature predictions in data centers. Applied Thermal Engineering, 2021, 185, 116319.	6.0	30
71	A numerical investigation of the flame structure of an unsteady inverse partially premixed flame. Combustion and Flame, 1997, 111, 296-311.	5.2	29
72	In Situ 3D Label-Free Contactless Bioprinting of Cells through Diamagnetophoresis. ACS Biomaterials Science and Engineering, 2016, 2, 2133-2138.	5.2	29

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73	Magnetic assembly of 3D cell clusters: visualizing the formation of an engineered tissue. Cell Proliferation, 2016, 49, 134-144.	5.3	29
74	Fe3O4 spinel-Mn3O4 spinel supercapacitor prepared using Celestine blue as a dispersant, capping agent and charge transfer mediator. Ceramics International, 2020, 46, 18851-18858.	4.8	29
75	A two-step model of TiO 2 nanoparticle toxicity in human liver tissue. Toxicology and Applied Pharmacology, 2017, 334, 47-54.	2.8	28
76	Thermal energy storage in porous materials with adsorption and desorption of moisture. International Journal of Heat and Mass Transfer, 2014, 69, 285-292.	4.8	27
77	Nickel Nanoparticles Entangled in Carbon Nanotubes: Novel Ink for Nanotube Printing. ACS Applied Materials & Interfaces, 2016, 8, 1589-1593.	8.0	27
78	Nickel oxide nanotube synthesis using multiwalled carbon nanotubes as sacrificial templates for supercapacitor application. Nanotechnology, 2017, 28, 075603.	2.6	27
79	Real-time temperature predictions in IT server enclosures. International Journal of Heat and Mass Transfer, 2018, 127, 890-900.	4.8	27
80	Cooling architecture selection for air-cooled Data Centers by minimizing exergy destruction. Energy, 2020, 201, 117625.	8.8	27
81	Flame Structure Interactions and State Relationships in an Unsteady Partially Premixed Flame. AIAA Journal, 1998, 36, 1190-1199.	2.6	26
82	A numerical and experimental investigation of â€œinverseâ€•triple flames. Physics of Fluids, 2001, 13, 265-275.	4.0	26
83	Structure of partially premixed n-heptaneâ€“air counterflow flames. Proceedings of the Combustion Institute, 2005, 30, 447-453.	3.9	26
84	Photocatalytic activity of electrophoretically deposited TiO2 and ZnO nanoparticles on fog harvesting meshes. Ceramics International, 2020, 46, 3777-3785.	4.8	26
85	Structures of multiple combustion waves formed under filtration of lean hydrogen-air mixtures in a packed bed. Proceedings of the Combustion Institute, 1996, 26, 3369-3375.	0.3	25
86	Temperature measurements in steady axisymmetric partially premixed flames by use of rainbow schlieren deflectometry. Applied Optics, 2002, 41, 1922.	2.1	25
87	A thermal logic device based on fluid-solid interfaces. Applied Physics Letters, 2013, 102, .	3.3	25
88	High areal capacitance of FeOOH-carbon nanotube negative electrodes for asymmetric supercapacitors. Ceramics International, 2018, 44, 18007-18015.	4.8	25
89	Thermal AND Gate Using a Monolayer Graphene Nanoribbon. Small, 2015, 11, 2910-2917.	10.0	24
90	Hybrid surrogate model for online temperature and pressure predictions in data centers. Future Generation Computer Systems, 2021, 114, 531-547.	7.5	24

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91	Droplet Behavior in Counterflowing Streams. Combustion Science and Technology, 1989, 66, 267-292.	2.3	23
92	The structure and extinction of partially premixed flames burning methane in air. Proceedings of the Combustion Institute, 1989, 22, 1555-1563.	0.3	23
93	Catalyst influence on the flame synthesis of aligned carbon nanotubes and nanofibers. Proceedings of the Combustion Institute, 2005, 30, 2553-2560.	3.9	23
94	Release of stored thermochemical energy from dehydrated salts. International Journal of Heat and Mass Transfer, 2011, 54, 4856-4863.	4.8	23
95	Thermal rectification in a polymer-functionalized single-wall carbon nanotube. Nanotechnology, 2014, 25, 345401.	2.6	23
96	MnO2-Carbon Nanotube Electrodes for Supercapacitors with High Active Mass Loadings. Journal of the Electrochemical Society, 2017, 164, A1673-A1678.	2.9	23
97	Facile synthesis of a hierarchical multi-layered CNT-NiFe2O4@MnO2 composite with enhanced microwave absorbing performance. Applied Surface Science, 2022, 581, 152363.	6.1	23
98	Flame stretch effects on partially premixed flames. Combustion and Flame, 2000, 123, 119-139.	5.2	22
99	Digital recording and numerical reconstruction of holograms: an optical diagnostic for combustion. Applied Optics, 2002, 41, 3890.	2.1	22
100	Communication: Thermal rectification in liquids by manipulating the solid-liquid interface. Journal of Chemical Physics, 2012, 137, 081101.	3.0	22
101	Multiwalled Carbon Nanotubes Coated with Nitrogenâ€“Sulfur Co-Doped Activated Carbon for Detecting Fenitrothion. ACS Applied Nano Materials, 2021, 4, 4781-4789.	5.0	22
102	Pseudocapacitive behavior of ferrimagnetic NiFe2O4-carbon nanotube electrodes prepared with a multifunctional dispersing agent. Open Ceramics, 2021, 6, 100127.	2.0	22
103	Energy, exergy and computing efficiency based data center workload and cooling management. Applied Energy, 2021, 299, 117050.	10.1	22
104	Numerical simulation of early stages of oxide formation in molten aluminiumâ€“magnesium alloys in a reverberatory furnace. Modelling and Simulation in Materials Science and Engineering, 2004, 12, 389-405.	2.0	21
105	A strategy for the assembly of three-dimensional mesoscopic structures using a ferrofluid. Physics of Fluids, 2005, 17, 057103.	4.0	21
106	Lattice thermal conductivity of a silicon nanowire under surface stress. Journal of Applied Physics, 2011, 109, .	2.5	21
107	The Influence of Transport Properties on Droplet Burning. Combustion Science and Technology, 1991, 76, 67-80.	2.3	20
108	Nanoscale Jet Collision and Mixing Dynamics. Nano Letters, 2007, 7, 707-712.	9.1	20

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109	Structure of aqueous MgSO4 solution: Dilute to concentrated. Chemical Physics Letters, 2011, 508, 38-42.	2.6	20
110	Waste heat recovery in a data center with an adsorption chiller: Technical and economic analysis. Energy Conversion and Management, 2021, 245, 114576.	9.2	20
111	A reduced kinetic mechanism for premixed CH3Cl/CH4/air flames. Combustion and Flame, 1993, 94, 191-204.	5.2	19
112	Control of confined nonpremixed flames using a microjet. International Journal of Heat and Fluid Flow, 2005, 26, 431-439.	2.4	19
113	Dynamics of nanoscale jet formation and impingement on flat surfaces. Physics of Fluids, 2007, 19, .	4.0	19
114	Workload management for air-cooled data centers: An energy and exergy based approach. Energy, 2020, 209, 118485.	8.8	19
115	VISUALIZATION OF SCALAR TRANSPORT IN NONREACTING AND REACTING JETS THROUGH A UNIFIED "HEATLINE" AND "MASSLINE" FORMULATION. Numerical Heat Transfer; Part A: Applications, 2003, 44, 683-704.	2.1	18
116	Effect of pressure on counterflow H2â€“air partially premixed flames. Combustion and Flame, 2005, 140, 46-59.	5.2	18
117	Comparison of Engagement with Ethics Between an Engineering and a Business Program. Science and Engineering Ethics, 2013, 19, 585-597.	2.9	18
118	Polypyrrole-Carbon Nanotube-FeOOH Composites for Negative Electrodes of Asymmetric Supercapacitors. Journal of the Electrochemical Society, 2019, 166, A935-A940.	2.9	18
119	Nanothermite colloids: A new prospective for enhanced performance. Defence Technology, 2019, 15, 319-325.	4.2	18
120	Systematic approach based on holographic interferometry measurements to characterize the flame structure of partially premixed flames. Applied Optics, 2001, 40, 731.	2.1	17
121	Thermal transport through superlattice solid-solid interfaces. Applied Physics Letters, 2009, 95, .	3.3	17
122	Printing microstructures in a polymer matrix using a ferrofluid droplet. Journal of Magnetism and Magnetic Materials, 2016, 401, 1054-1059.	2.3	17
123	Influence of metal mesh wettability on fog harvesting in industrial cooling towers. Applied Thermal Engineering, 2020, 181, 115963.	6.0	17
124	A reduced kinetic mechanism for premixed CH3Cl/air flames. Combustion and Flame, 1993, 92, 440-455.	5.2	16
125	A methodology to control direct-fired furnaces. International Journal of Heat and Mass Transfer, 2004, 47, 5247-5256.	4.8	16
126	Thermal rectification in a fluid reservoir. Applied Physics Letters, 2012, 100, .	3.3	16

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127	Decorating carbon nanotubes with co-precipitated magnetite nanocrystals. Diamond and Related Materials, 2016, 66, 90-97.	3.9	16
128	Influence of particle arrangement on the permittivity of an elastomeric composite. AIP Advances, 2017, 7, .	1.3	16
129	A data-driven approach to simultaneous fault detection and diagnosis in data centers. Applied Soft Computing Journal, 2021, 110, 107638.	7.2	16
130	The removal of NO by low-temperature O3 oxidation. Combustion and Flame, 1995, 102, 512-518.	5.2	15
131	Heat release mechanisms in inhibited laminar counterflow flames. Combustion and Flame, 1996, 104, 27-40.	5.2	15
132	A deterministic representation of cascade spreading in complex networks. Europhysics Letters, 2009, 87, 48004.	2.0	15
133	Changing the magnetic properties of microstructure by directing the self-assembly of superparamagnetic nanoparticles. Faraday Discussions, 2015, 181, 423-435.	3.2	15
134	The Extinction of Counterflow Premixed Flames Burning Diluted Methane-Air, and Diluted Propane-Air Mixtures. Combustion Science and Technology, 1987, 53, 55-65.	2.3	14
135	Enhancement in hydrogen storage in carbon nanotubes under modified conditions. Nanotechnology, 2008, 19, 155702.	2.6	14
136	Elastomechanical properties of resilin. Soft Matter, 2011, 7, 11006.	2.7	14
137	Shear viscosity enhancement in waterâ€“nanoparticle suspensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 860-863.	2.1	14
138	Patterning the Stiffness of Elastomeric Nanocomposites by Magnetophoretic Control of Cross-linking Impeder Distribution. Materials, 2015, 8, 474-485.	2.9	14
139	Fabrication of nanoscale to macroscale nickel-multiwall carbon nanotube hybrid materials with tunable material properties. Materials Research Express, 2016, 3, 125014.	1.6	14
140	3D cellular structures and co-cultures formed through the contactless magnetic manipulation of cells on adherent surfaces. Biomaterials Science, 2018, 6, 683-694.	5.4	14
141	Reducing thermal transport in electrically conducting polymers: Effects of ordered mixing of polymer chains. Applied Physics Letters, 2013, 102, 023109.	3.3	13
142	Magnetic Printing of a Biosensor: Inexpensive Rapid Sensing To Detect Picomolar Amounts of Antigen with Antibody-Functionalized Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 11790-11797.	8.0	13
143	Synthesis of Superhydrophobic Carbon Surface during Combustion Propane. Eurasian Chemico-Technological Journal, 2015, 14, 19.	0.6	13
144	Experimental investigation of stretched premixed flames burning mixtures of methane and methyl chloride in air and comparison with numerical simulations. Combustion and Flame, 1993, 94, 25-34.	5.2	12

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145	Effects of C2-Chernistry on the Structure of Partially Premixed Methane-Air Flames. Combustion Science and Technology, 2000, 157, 185-211.	2.3	12
146	THE INFLUENCE OF REAL-GAS THERMODYNAMICS ON SIMULATIONS OF FREELY PROPAGATING FLAMES IN METHANE/OXYGEN/INERT MIXTURES. Combustion Science and Technology, 2007, 179, 1777-1795.	2.3	12
147	Dynamic rectification in a thermal diode based on fluid-solid interfaces: Contrasting behavior of soft materials and fluids. Applied Physics Letters, 2014, 104, 211601.	3.3	12
148	High gradient magnetic field microstructures for magnetophoretic cell separation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1027, 194-199.	2.3	12
149	Strategies for liquid-liquid extraction of oxide particles for applications in supercapacitor electrodes and thin films. Journal of Colloid and Interface Science, 2017, 499, 1-8.	9.4	12
150	Nonpremixed flame control with microjets. Experiments in Fluids, 2004, 36, 635-641.	2.4	11
151	Effect of fuel type on the extinction of fuel and air stream diluted partially premixed flames. Proceedings of the Combustion Institute, 2009, 32, 2583-2590.	3.9	11
152	Tailoring Material Stiffness by Filler Particle Organization. ACS Applied Materials & Interfaces, 2016, 8, 27449-27453.	8.0	11
153	Recipe for optimizing a solid-state thermal rectifier. International Journal of Thermal Sciences, 2017, 117, 260-265.	4.9	11
154	The structure of inhibited counterflowing nonpremixed flames. Combustion and Flame, 1994, 98, 107-122.	5.2	10
155	Experimental and Numerical Investigation of n-Heptane/Air Counterflow Nonpremixed Flame Structure. Journal of Propulsion and Power, 2008, 24, 797-804.	2.2	10
156	Mathematical model of the role of intercellular signalling in intercellular cooperation during tumorigenesis. Cell Proliferation, 2011, 44, 192-203.	5.3	10
157	Magnetoresponsive conductive colloidal suspensions with magnetized carbon nanotubes. Journal of Magnetism and Magnetic Materials, 2017, 421, 292-299.	2.3	10
158	Stretched laminar flamelet modeling of turbulent chloromethane-air nonpremixed jet flames. Combustion and Flame, 1995, 103, 328-338.	5.2	9
159	Acetylene and ethylene mole fractions in methane/air partially premixed flames. Proceedings of the Combustion Institute, 1996, 26, 993-999.	0.3	9
160	An assessment of stretch effects on a flame tip using the thin flame and thick flame formulations. Combustion and Flame, 2003, 133, 499-502.	5.2	9
161	Gravity effects on partially premixed flames: an experimental-numerical investigation. Proceedings of the Combustion Institute, 2005, 30, 511-518.	3.9	9
162	Lattice Boltzmann method simulation of electroosmotic stirring in a microscale cavity. Microfluidics and Nanofluidics, 2008, 4, 463-470.	2.2	9

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163	Communication: A tractable design for a thermal transistor. Journal of Chemical Physics, 2013, 139, 151102.	3.0	9
164	Printing Three-Dimensional Heterogeneities in the Elastic Modulus of an Elastomeric Matrix. ACS Applied Materials & Interfaces, 2016, 8, 11018-11023.	8.0	9
165	Label-Free Magnetic-Field-Assisted Assembly of Layer-on-Layer Cellular Structures. ACS Biomaterials Science and Engineering, 2020, 6, 4294-4303.	5.2	9
166	The structure of nonpremixed methyl chloride and methyl chloride/methane air flames near extinction. Combustion and Flame, 1994, 96, 381-392.	5.2	8
167	Evaluation of engineering double-degree programs in Sweden: results of the Lund Focus Groups. European Journal of Higher Education, 2011, 1, 220-232.	2.7	8
168	Non-premixed flame synthesis of hydrophobic carbon nanostructured surfaces. Proceedings of the Combustion Institute, 2011, 33, 3351-3357.	3.9	8
169	Role of wing morphing in thrust generation. Theoretical and Applied Mechanics Letters, 2014, 4, 032003.	2.8	8
170	Oxidation of CH3CHO by O3and H2O2Mixtures in Supercritical CO2in a Perfectly Stirred Reactor. Industrial & Engineering Chemistry Research, 1997, 36, 3446-3452.	3.7	7
171	Application of Flamelet Profiles to Flame Structure in Practical Burners. Journal of Energy Resources Technology, Transactions of the ASME, 1999, 121, 66-72.	2.3	7
172	Suppression of fuel and air stream diluted methaneâ€“air partially premixed flames in normal and microgravity. Fire Safety Journal, 2008, 43, 24-35.	3.1	7
173	Dynamics of impinging nanoscale jets. Chemical Physics Letters, 2010, 491, 177-182.	2.6	7
174	Numerical investigation of flow-through immunoassay in a microchannel. Journal of Applied Physics, 2010, 107, 034907.	2.5	7
175	Phonon transport in an initially twisted polyvinyl acetate nanofiber. Applied Physics Letters, 2013, 102, .	3.3	7
176	Liquidâ€“liquid extraction of oxide particles and application in supercapacitors. Journal of Materials Research, 2017, 32, 3242-3250.	2.6	7
177	Flame structure interactions and state relationships in an unsteady partially premixed flame. AIAA Journal, 1998, 36, 1190-1199.	2.6	7
178	Extinction Criteria for Buoyant Nonpremixed Flames. Combustion Science and Technology, 1992, 84, 305-321.	2.3	6
179	Prediction of the pulsation frequency of flames formed over a semi-infinite horizontal surface. International Journal of Heat and Mass Transfer, 1993, 36, 2657-2663.	4.8	6
180	Influence of molecular structure of extractor molecules on liquid-liquid extraction of oxide particles and properties of composites. Ceramics International, 2018, 44, 15714-15720.	4.8	6

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181	Tailoring the properties of a polymer nanocomposite with a magnetic field. Polymer Composites, 2019, 40, 779-788.	4.6	6
182	Three-dimensional printing of diamagnetic microparticles in paramagnetic and diamagnetic media. Physics of Fluids, 2020, 32, .	4.0	6
183	Coupled mathematical model of tumorigenesis and angiogenesis in vascular tumours. Cell Proliferation, 2010, 43, 542-552.	5.3	5
184	Molecular simulations of thermal transport across interfaces: solidâ€“vapour and solidâ€“solid. Molecular Simulation, 2012, 38, 642-652.	2.0	5
185	Understanding unusual thermal transport behavior in soft materials under mechanical strain â€“ A molecular dynamics study. Chemical Physics Letters, 2015, 626, 102-105.	2.6	5
186	Gadopentatic acid affects in vitro proliferation and doxorubicin response in human breast adenocarcinoma cells. BioMetals, 2018, 31, 605-616.	4.1	5
187	Synthesis, Characterization, and Applications of Carbon Nanotubes Functionalized with Magnetic Nanoparticles. , 2018, , 37-57.		5
188	Performance of a rack mountable cooling unit in an IT server enclosure. Thermal Science and Engineering Progress, 2020, 17, 100395.	2.7	5
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