

Adrian Bejan

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.

685
papers

26,227
citations

73
h-index

136
g-index

750
ext. papers

28,830
ext. citations

3.6
avg, IF

7.75
L-index

#	Paper	IF	Citations
685	Evolutionary design: Heat and fluid flow together. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 132, 105924	5.8	0
684	Virus spreading and heat spreading. <i>International Journal of Thermal Sciences</i> , 2022 , 174, 107433	4.1	0
683	Evolution, physics, and education.. <i>BioSystems</i> , 2022 , 215-216, 104663	1.9	0
682	Nationalism and forgetfulness in the spreading of thermal sciences. <i>International Journal of Thermal Sciences</i> , 2021 , 163, 106802	4.1	1
681	Evolutionary design of composite structures for thermal conductance and strength. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 125, 105293	5.8	3
680	Heat sinks with minichannels and flow distributors based on constructal law. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 125, 105122	5.8	5
679	Inflected wings in flight: Uniform flow of stresses makes strong and light wings for stable flight. <i>Journal of Theoretical Biology</i> , 2021 , 508, 110452	2.3	1
678	Artificial Intelligence Evolution in Smart Buildings for Energy Efficiency. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 763	2.6	14
677	Morphing the design to go with the times. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 104837	5.8	4
676	Cell and extracellular matrix growth theory and its implications for tumorigenesis. <i>BioSystems</i> , 2021 , 201, 104331	1.9	2
675	Tree flows through hierarchical slits and orifices. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105589	5.8	1
674	Purpose in Thermodynamics. <i>Energies</i> , 2021 , 14, 408	3.1	3
673	Human evolution is biological & technological evolution. <i>BioSystems</i> , 2020 , 195, 104156	1.9	10
672	Freedom and evolution in the dynamics of social systems. <i>BioSystems</i> , 2020 , 195, 104158	1.9	8
671	Energy theory of periodic economic growth. <i>International Journal of Energy Research</i> , 2020 , 44, 5231-5242	2.5	6
670	University Rankings: Quality, Size and Permanence. <i>European Review</i> , 2020 , 28, 537-558	0.3	2
669	Convergent Evolution of Boats with Sails. <i>Scientific Reports</i> , 2020 , 10, 2703	4.9	2

668	AI and freedom for evolution in energy science. <i>Energy and AI</i> , 2020 , 1, 100001	12.6	16
667	Geometric Optimization of Cooling Techniques 2020 , 1-46		1
666	Discipline in Thermodynamics. <i>Energies</i> , 2020 , 13, 2487	3.1	8
665	Economies of Scale 2020 , 13-20		0
664	Hierarchy 2020 , 21-35		
663	Nature and Power 2020 , 1-12		
662	Social Organization and Innovation 2020 , 53-64		
661	Diminishing Returns 2020 , 123-134		
660	Science and Freedom 2020 , 135-145		
659	Freedom and Evolution 2020 ,		18
658	Boundary layers from constructal law. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104672	5.8	3
657	Design, additive manufacturing, and performance of heat exchanger with a novel flow-path architecture. <i>Applied Thermal Engineering</i> , 2020 , 180, 115775	5.8	12
656	The evolution of air and maritime transport. <i>Applied Physics Reviews</i> , 2019 , 6, 021319	17.3	15
655	Why the Days Seem Shorter as We Get Older. <i>European Review</i> , 2019 , 27, 187-194	0.3	6
654	Professor Yogesh Jaluria on his 70th Birthday. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 140, 1106-1107	4.9	
653	Thermodynamics of heating. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180820	2.4	10
652	Heat tubes: Conduction and convection. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1258-1262	4.9	2
651	Counter cross-flow evaporator geometries for supercritical organic Rankine cycles. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 425-435	4.9	7

650	Constructal Design of Aircraft: Flow of Stresses and Aeroelastic Stability. <i>AIAA Journal</i> , 2019 , 57, 4393-4405	7	
649	Current trends in constructal law and evolutionary design. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 3574-3589	27	
648	Evolutionary design with freedom: Time dependent heat spreading. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 108, 104335	5.8	1
647	Professor Sadik Kakaçın His 85th Birthday. <i>Heat and Mass Transfer</i> , 2019 , 55, 933-935	2.2	
646	Novel evaporator architecture with entrance-length crossflow-paths for supercritical Organic Rankine Cycles. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 208-222	4.9	6
645	Comment on "Study on the consistency between field synergy principle and entransy dissipation extremum principle". <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 1187-1188	4.9	16
644	The evolutionary design of cooling a plate with one stream. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 9-15	4.9	12
643	Evolutionary design of conducting layers with fins and freedom. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 926-934	4.9	3
642	Constructal Theory in Heat Transfer 2018 , 329-360		7
641	Thermodynamics today. <i>Energy</i> , 2018 , 160, 1208-1219	7.9	22
640	On celebration of Professor Abdulmajeed A. Mohamad's 65th birthday. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 1356-1357	4.9	
639	Without Engineering, Civilization does not Exist. <i>Mechanical Engineering</i> , 2018 , 140, 42-47	0.9	1
638	The fastest animals and vehicles are neither the biggest nor the fastest over lifetime. <i>Scientific Reports</i> , 2018 , 8, 12925	4.9	4
637	Social organization: The thermodynamic basis. <i>International Journal of Energy Research</i> , 2018 , 42, 3770-3779	4.5	6
636	Letter to the editor on "Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle" taking multi stage cycle as an example by S. Z. Xu et al., vol. 74, 2017, pp. 254-268. <i>International Journal of Refrigeration</i> , 2018 , 90, 277-279	3.8	10
635	Medical imaging dose optimisation from ground up: expert opinion of an international summit. <i>Journal of Radiological Protection</i> , 2018 , 38, 967-989	1.2	24
634	Economies of scale: The physics basis. <i>Journal of Applied Physics</i> , 2017 , 121, 044907	2.5	17
633	Internal Natural Convection: Heating from the Side 2017 , 363-437		

632	Internal Natural Convection: Heating from Below 2017 , 241-361		1
631	Thermal analysis in a triple-layered skin structure with embedded vasculature, tumor, and gold nanoshells. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 677-695	4.9	13
630	External Natural Convection 2017 , 161-239		
629	Geophysical Aspects 2017 , 595-628		
628	Double-Diffusive Convection 2017 , 473-537		
627	Response to Comment on Economies of scale: The physics basis[J. Appl. Phys. 121, 206101 (2017)]. <i>Journal of Applied Physics</i> , 2017 , 121, 206102	2.5	2
626	Evolution in thermodynamics. <i>Applied Physics Reviews</i> , 2017 , 4, 011305	17.3	69
625	Mass Transfer in a Porous Medium: Multicomponent and Multiphase Flows 2017 , 57-84		1
624	Forced Convection 2017 , 85-160		0
623	Mixed Convection 2017 , 439-471		
622	Wealth inequality: The physics basis. <i>Journal of Applied Physics</i> , 2017 , 121, 124903	2.5	16
621	Convection in Porous Media 2017 ,		209
620	Mechanics of Fluid Flow Through a Porous Medium 2017 , 1-35		3
619	Convection with Change of Phase 2017 , 539-593		
618	Evolution as Physics: The Human & Machine Species. <i>European Review</i> , 2017 , 25, 140-149	0.3	5
617	Horizontal extent of the urban heat dome flow. <i>Scientific Reports</i> , 2017 , 7, 11681	4.9	19
616	Hierarchy in air travel: Few large and many small. <i>Journal of Applied Physics</i> , 2017 , 122, 024904	2.5	6
615	Entrance-length dendritic plate heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 114, 1350-1356	4.9	22

614	The constructal size of a heat exchanger. <i>Journal of Applied Physics</i> , 2017 , 122, 064902	2.5	18
613	Constructal Theory in Heat Transfer 2017 , 1-32		2
612	Letter to the editor of renewable and sustainable energy reviews. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1636-1637	16.2	8
611	Rolling stones and turbulent eddies: why the bigger live longer and travel farther. <i>Scientific Reports</i> , 2016 , 6, 21445	4.9	10
610	Life and evolution as physics. <i>Communicative and Integrative Biology</i> , 2016 , 9, e1172159	1.7	12
609	Counterflow heat exchanger with core and plenums at both ends. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 622-629	4.9	12
608	Constructal design of salt-gradient solar pond fields. <i>International Journal of Energy Research</i> , 2016 , 40, 1428-1446	4.5	16
607	Professor Arcot R. Balakrishnan on his 65th birthday. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 498-499	4.9	
606	Evolution of Airplanes, and What Price Speed?. <i>AIAA Journal</i> , 2016 , 54, 1120-1123	2.1	7
605	Constructal thermodynamics. <i>International Journal of Heat and Technology</i> , 2016 , 34, S1-S8	2.2	11
604	Constructal thermodynamics. <i>International Journal of Heat and Technology</i> , 2016 , 34, S1-S8	2.2	9
603	Accelerated Evolution. <i>Mechanical Engineering</i> , 2016 , 138, 38-43	0.9	
602	The evolution of helicopters. <i>Journal of Applied Physics</i> , 2016 , 120, 014901	2.5	14
601	Distributed energy storage: Time-dependent tree flow design. <i>Journal of Applied Physics</i> , 2016 , 119, 184901	2.5	4
600	Response to [Comment on "The physics origin of the hierarchy of bodies in space" [J. Appl. Phys. 120, 126101 (2016)]]. <i>Journal of Applied Physics</i> , 2016 , 120, 126102	2.5	
599	Complexity, organization, evolution, and constructal law. <i>Journal of Applied Physics</i> , 2016 , 119, 074901	2.5	54
598	The physics origin of the hierarchy of bodies in space. <i>Journal of Applied Physics</i> , 2016 , 119, 094901	2.5	10
597	Constructal design for convection melting of a phase change body. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 762-769	4.9	15

596	Arrays of flow channels with heat transfer embedded in conducting walls. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 504-511	4.9	8
595	2016 ,		157
594	Thermal coupling between a helical pipe and a conducting volume. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 762-767	4.9	3
593	The robustness of the permeability of constructal tree-shaped fissures. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 259-265	4.9	14
592	Energy design for dense neighborhoods: One heat pump rejects heat, the other absorbs heat from the same loop. <i>International Journal of Thermal Sciences</i> , 2015 , 96, 227-235	4.1	5
591	The evolutionary design of condensers. <i>Journal of Applied Physics</i> , 2015 , 117, 125101	2.5	8
590	Constructal design of gas-cooled electric power generators, self-pumping and atmospheric circulation. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 647-655	4.9	7
589	Vascularization for cooling and reduced thermal stresses. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 858-864	4.9	17
588	Heatlines (1983) versus synergy (1998). <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 654-658	4.9	37
587	Technology evolution, from the constructal law: heat transfer designs. <i>International Journal of Energy Research</i> , 2015 , 39, 919-928	4.5	12
586	Constructal design of latent thermal energy storage with vertical spiral heaters. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 283-288	4.9	38
585	Sustainability: The Water and Energy Problem, and the Natural Design Solution. <i>European Review</i> , 2015 , 23, 481-488	0.3	9
584	Exergy Analysis, Entropy Generation Minimization, and the Constructal Law 2015 , 1-26		
583	Morphing tree structures for latent thermal energy storage. <i>Journal of Applied Physics</i> , 2015 , 117, 224901	4.5	22
582	Cerebral oxygenation and optimal vascular brain organization. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	20
581	Thermodynamics Fundamentals 2015 , 1-22		
580	Every Snowflake is Not Unique. <i>Mechanical Engineering</i> , 2015 , 137, 40-41	0.9	1
579	Constructal Law: Optimization as Design Evolution. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	73

578	Why humans build fires shaped the same way. <i>Scientific Reports</i> , 2015 , 5, 11270	4.9	10
577	Constructal design of evacuation from a three-dimensional living space. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 422, 47-57	3.3	13
576	Maxwell's demons everywhere: evolving design as the arrow of time. <i>Scientific Reports</i> , 2014 , 4, 4017	4.9	26
575	Phase change heat storage in an enclosure with vertical pipe in the center. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 329-335	4.9	44
574	Power from a hot gas stream with superheater and reheater in parallel. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 29-32	4.9	6
573	The S curve of energy storage by melting. <i>Journal of Applied Physics</i> , 2014 , 116, 114902	2.5	12
572	Constructal design of thermoelectric power packages. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 79, 291-299	4.9	6
571	The evolution of airplanes. <i>Journal of Applied Physics</i> , 2014 , 116, 044901	2.5	32
570	Assemblies of heat pumps served by a single underground heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 327-336	4.9	9
569	Double tree structure in a conducting body. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 140-146	4.9	4
568	Thermal coupling between a spiral pipe and a conducting volume. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 202-207	4.9	6
567	Evolution: why all plumes and jets evolve to round cross sections. <i>Scientific Reports</i> , 2014 , 4, 4730	4.9	18
566	Entransy, and Its Lack of Content in Physics. <i>Journal of Heat Transfer</i> , 2014 , 136,	1.8	51
565	Constructal Underground Designs for Ground-Coupled Heat Pumps. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2014 , 136,	2.3	8
564	Vascular design for reducing hot spots and stresses. <i>Journal of Applied Physics</i> , 2014 , 115, 174904	2.5	14
563	Comment on Application of Entransy Analysis in Self-Heat Recuperation Technology. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18352-18353	3.9	13
562	Distribution of size in multi-evaporator air conditioning systems. <i>International Journal of Energy Research</i> , 2014 , 38, 652-657	4.5	5
561	Ecohydrological flow networks in the subsurface. <i>Ecohydrology</i> , 2014 , 7, n/a-n/a	2.5	13

560	Constructal distribution of multi-layer insulation. <i>International Journal of Energy Research</i> , 2013 , 37, 153-160	4.6	21
559	Mechanics of Fluid Flow Through a Porous Medium 2013 , 1-29		11
558	Convection in Porous Media 2013 ,		523
557	Trees and serpentine in a conducting body. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 56, 488-494	4.9	15
556	Power from a hot gas stream with multiple superheaters and reheaters. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 153-158	4.9	13
555	Technology Evolution, from the Constructal Law. <i>Advances in Heat Transfer</i> , 2013 , 45, 183-207	1.9	4
554	Effect of size on ground-coupled heat pump performance. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 115-121	4.9	11
553	One underground heat exchanger for multiple heat pumps. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 727-738	4.9	11
552	Constructal design of regenerators. <i>International Journal of Energy Research</i> , 2013 , 37, 1509-1518	4.5	9
551	Entropy Generation Minimization, Exergy Analysis, and the Constructal Law. <i>Arabian Journal for Science and Engineering</i> , 2013 , 38, 329-340		29
550	Constructal flow orientation in conjugate cooling channels with internal heat generation. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 57, 241-249	4.9	17
549	Culture and the Constructal-Law evolution of the human and machine species: comment on "An evolutionary framework for cultural change: selectionism versus communal exchange" by L. Gabora. <i>Physics of Life Reviews</i> , 2013 , 10, 151-3	2.1	
548	Constructal law: pleasure, golden ratio, animal locomotion and the design of pedestrian evacuation: comment on "The emergence of design in pedestrian dynamics: locomotion, self-organization, walking paths and the constructal law" by A. Miguel. <i>Physics of Life Reviews</i> , 2013 , 10, 199-201	2.1	3
547	Underground heat flow patterns for dense neighborhoods with heat pumps. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 632-637	4.9	2
546	Constructal design of a comb-like channel network for self-healing and self-cooling. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 66, 898-905	4.9	16
545	Double-Diffusive Convection 2013 , 425-468		
544	Fundamental Principles 2013 , 1-29		
543	Laminar Boundary Layer Flow 2013 , 30-95		

542 Laminar Duct Flow **2013**, 96-167

541 External Natural Convection **2013**, 168-232

1

540 Internal Natural Convection **2013**, 233-294

1

539 Transition to Turbulence **2013**, 295-319

538 Turbulent Boundary Layer Flow **2013**, 320-368

537 Turbulent Duct Flow **2013**, 369-397

536 Free Turbulent Flows **2013**, 398-427

535 Convection with Change of Phase **2013**, 428-488

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534 Mass Transfer **2013**, 489-536

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533 Convection in Porous Media **2013**, 537-605

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532 Constructal law of design and evolution: Physics, biology, technology, and society. *Journal of Applied Physics*, **2013**, 113, 151301

2.5 205

531 External Natural Convection **2013**, 145-220

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530 Constructal design of pedestrian evacuation from an area. *Journal of Applied Physics*, **2013**, 113, 034904

2.5 11

529 Heat Transfer Through a Porous Medium **2013**, 31-46

16

528 Constructal paddle design with fingers. *Journal of Applied Physics*, **2013**, 113, 194902

2.5

527 Why solidification has an S-shaped history. *Scientific Reports*, **2013**, 3,

4.9 21

526 Stepping on the Water. *Mechanical Engineering*, **2013**, 135, 38-41

0.9 1

525 The constructal evolution of sports with throwing motion: baseball, golf, hockey and boxing. *International Journal of Design and Nature and Ecodynamics*, **2013**, 8, 1-16

2.3 3

524	The evolution of long distance running and swimming. <i>International Journal of Design and Nature and Ecodynamics</i> , 2013 , 8, 17-28	2.3	2
523	Mixed Convection 2013 , 397-424		
522	Convection with Change of Phase 2013 , 469-522		
521	Geophysical Aspects 2013 , 523-553		
520	Internal Natural Convection: Heating from Below 2013 , 221-329		0
519	Mass Transfer in a Porous Medium: Multicomponent and Multiphase Flows 2013 , 47-68		
518	Internal Natural Convection: Heating from the Side 2013 , 331-396		
517	The Constructal Design of Humanity on the Globe. <i>Understanding Complex Systems</i> , 2013 , 1-20	0.4	
516	2013 ,		462
515	The constructal-law physics of why swimmers must spread their fingers and toes. <i>Journal of Theoretical Biology</i> , 2012 , 308, 141-6	2.3	12
514	Why the bigger live longer and travel farther: animals, vehicles, rivers and the winds. <i>Scientific Reports</i> , 2012 , 2, 594	4.9	37
513	Constructal design of underground heat sources or sinks for the annual cycle. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7832-7837	4.9	12
512	Serpentine thermal coupling between a stream and a conducting body. <i>Journal of Applied Physics</i> , 2012 , 111, 044911	2.5	14
511	The steepest S curve of spreading and collecting flows: Discovering the invading tree, not assuming it. <i>Journal of Applied Physics</i> , 2012 , 111, 114903	2.5	13
510	Tree-shaped fluid flow and heat storage in a conducting solid. <i>Journal of Applied Physics</i> , 2012 , 111, 014903	2.5	18
509	Constructal design for pedestrian movement in living spaces: Evacuation configurations. <i>Journal of Applied Physics</i> , 2012 , 111, 054903	2.5	13
508	The S-Curves are Everywhere. <i>Mechanical Engineering</i> , 2012 , 134, 44-47	0.9	6
507	Design in Nature. <i>Mechanical Engineering</i> , 2012 , 134, 42-47	0.9	23

506	X.-B. Liu, Q. Chen, M. Wang, N. Pan and Z.-Y. Guo, Multi-dimensional effect on optimal network structure for fluid distribution, <i>Chemical Engineering and Processing</i> 49 (2010) 1038-1043. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012 , 56, 34	3.7	14
505	The physics of spreading ideas. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 802-807	4.9	34
504	Constructal design of distributed energy systems: Solar power and water desalination. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2213-2218	4.9	14
503	Freely morphing tree structures in a conducting body. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4744-4753	4.9	16
502	Why we want power: Economics is physics. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4929-4935	4.9	5
501	Vascularization for cooling a plate heated by a randomly moving source. <i>Journal of Applied Physics</i> , 2012 , 112, 084906	2.5	11
500	Climate change, in the framework of the Constructal Law. <i>International Journal of Global Warming</i> , 2012 , 4, 242	0.6	13
499	The natural design of hierarchy: basketball versus academics. <i>International Journal of Design and Nature and Ecodynamics</i> , 2012 , 7, 14-26	2.3	3
498	The constructal law origin of the logistics S curve. <i>Journal of Applied Physics</i> , 2011 , 110, 024901	2.5	46
497	Animals Spinning their Wheels. <i>Mechanical Engineering</i> , 2011 , 133, 44-46	0.9	0
496	The constructal law and the evolution of design in nature. <i>Physics of Life Reviews</i> , 2011 , 8, 209-40	2.1	209
495	The constructal law makes biology and economics be like physics. <i>Physics of Life Reviews</i> , 2011 , 8, 261-263	1	4
494	The effect of size on efficiency: Power plants and vascular designs. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 1475-1481	4.9	34
493	Vascularization for cooling and mechanical strength. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 2774-2781	4.9	31
492	Steam generator structure: Continuous model and constructal design. <i>International Journal of Energy Research</i> , 2011 , 35, 336-345	4.5	39
491	Constructal design of distributed cooling on the landscape. <i>International Journal of Energy Research</i> , 2011 , 35, 805-812	4.5	13
490	Configuration of heat sources or sinks in a finite volume. <i>Journal of Applied Physics</i> , 2011 , 110, 023502	2.5	5
489	Climate change, in the framework of the constructal law 2011 ,		3

488	The Constructal Law and the Design of the Biosphere: Nature and Globalization. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	19
487	Hybrid grid and tree structures for cooling and mechanical strength. <i>Journal of Applied Physics</i> , 2011 , 110, 064910	2.5	15
486	Distributed energy tapestry for heating the landscape. <i>Journal of Applied Physics</i> , 2010 , 108, 124904	2.5	9
485	Natural constructal emergence of vascular design with turbulent flow. <i>Journal of Applied Physics</i> , 2010 , 107, 114901	2.5	26
484	Vascular structures for volumetric cooling and mechanical strength. <i>Journal of Applied Physics</i> , 2010 , 107, 044901	2.5	12
483	Vascular Countercurrent Network for 3-D Triple-Layered Skin Structure with Radiation Heating. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 57, 369-391	2.3	16
482	Constructal dendritic configuration for the radiation heating of a solid stream. <i>Journal of Applied Physics</i> , 2010 , 107, 114910	2.5	25
481	The constructal-law origin of the wheel, size, and skeleton in animal design. <i>American Journal of Physics</i> , 2010 , 78, 692-699	0.7	25
480	Constructal Distribution of Solar Chimney Power Plants: Few Large and Many Small. <i>International Journal of Green Energy</i> , 2010 , 7, 577-592	3	21
479	The constructal law of design and evolution in nature. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 1335-47	5.8	176
478	Constructal solar chimney configuration. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 327-333	4.9	81
477	Design in nature, thermodynamics, and the constructal law: comment on "Life, hierarchy, and the thermodynamic machinery of planet Earth" by A. Kleidon. <i>Physics of Life Reviews</i> , 2010 , 7, 467-70; discussion 473-6	2.1	4
476	Constructal architecture for heating a stream by convection. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2248-2255	4.9	19
475	Constructal multi-scale pin fins. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2773-2779	4.9	56
474	Fluid flow and heat transfer in vascularized cooling plates. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3607-3614	4.9	25
473	The flow of stresses concept: The analogy between mechanical strength and heat convection. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2963-2968	4.9	34
472	Constructal multi-tube configuration for natural and forced convection in cross-flow. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 5121-5128	4.9	39
471	Vascular design of constructal structures with low flow resistance and nonuniformity. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 2309-2318	4.1	26

470	Two hierarchies in science: the free flow of ideas and the academy. <i>International Journal of Design and Nature and Ecodynamics</i> , 2010 , 4, 386-394	2.3	9
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