

Laurent Pilon

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2135966/laurent-pilon-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

194
papers

6,758
citations

46
h-index

73
g-index

225
ext. papers

7,979
ext. citations

4.7
avg, IF

6.43
L-index

#	Paper	IF	Citations
194	Elastic and plastic mechanical properties of nanoparticle-based silica aerogels and xerogels. <i>Microporous and Mesoporous Materials</i> , 2022 , 330, 111569	5.3	2
193	Potentiometric entropy and operando calorimetric measurements reveal fast charging mechanisms in PNB9O25. <i>Journal of Power Sources</i> , 2022 , 520, 230776	8.9	2
192	Transparent silica aerogel slabs synthesized from nanoparticle colloidal suspensions at near ambient conditions on omniphobic liquid substrates. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 884-897	9.3	1
191	A pilot-process for calcium hydroxide production from iron slag by low-temperature precipitation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 107792	6.8	0
190	A novel external reflecting raceway pond design for improved biomass productivity. <i>Algal Research</i> , 2022 , 65, 102742	5	0
189	Infrared radiation transfer through semitransparent windows supporting absorbing droplets. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 194, 123043	4.9	0
188	Dependent Scattering Effects in Aggregates with Touching or Overlapping Non-Absorbing Spherical Particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 278, 108018	2.1	0
187	Heat generation in electric double layer capacitors with neat and diluted ionic liquid electrolytes under large potential window between 5 and 80°C. <i>Journal of Power Sources</i> , 2021 , 488, 229368	8.9	5
186	Light transfer through semi-transparent glass panes supporting pendant droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 261, 107493	2.1	3
185	Effect of dew and rain on photovoltaic solar cell performances. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110908	6.4	10
184	Operando calorimetry informs the origin of rapid rate performance in microwave-prepared TiNb2O7 electrodes. <i>Journal of Power Sources</i> , 2021 , 490, 229537	8.9	7
183	Impact of Dropwise Condensation on the Biomass Production Rate in Covered Raceway Ponds. <i>Energies</i> , 2021 , 14, 268	3.1	3
182	Room temperature rectification in tapered-channel thermal diodes through nanoscale confinement-induced liquid-solid phase change. <i>Journal of Applied Physics</i> , 2021 , 129, 075103	2.5	0
181	A continuum model of heat transfer in electrical double-layer capacitors with porous electrodes under constant-current cycling. <i>Journal of Power Sources</i> , 2021 , 511, 230404	8.9	2
180	Transmittance of transparent horizontal and tilted windows supporting large non-absorbing pendant droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 275, 107876	2.1	1
179	Calcination-free production of calcium hydroxide at sub-boiling temperatures.. <i>RSC Advances</i> , 2021 , 11, 1762-1772	3.7	2
178	Examining the Role of Atomic Scale Heterogeneity on the Thermal Conductivity of Transparent, Thermally Insulating, Mesoporous Silica-Titania Thin Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27442-27452	3.8	2

177	Revisiting independent versus dependent scattering regimes in suspensions or aggregates of spherical particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 246, 106924	2.1	10
176	Controlling Thermal Conductivity in Mesoporous Silica Films Using Pore Size and Nanoscale Architecture. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3731-3737	6.4	5
175	Engineering mesoporous silica for superior optical and thermal properties. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	6
174	Bidirectional transmittance of transparent windows with external or backside condensation of nonabsorbing cap-shaped droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 251, 107039	2.1	5
173	In Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. <i>ChemSusChem</i> , 2020 , 13, 1013-1026	8.3	8
172	Effect of temperature on irreversible and reversible heat generation rates in ionic liquid-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2020 , 338, 135802	6.7	7
171	Effect of colony formation on light absorption by <i>Botryococcus braunii</i> . <i>Algal Research</i> , 2020 , 50, 101985		3
170	Comparing methods for measuring thickness, refractive index, and porosity of mesoporous thin films. <i>Microporous and Mesoporous Materials</i> , 2020 , 291, 109677	5.3	16
169	Exploring the Effect of Porous Structure on Thermal Conductivity in Templated Mesoporous Silica Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21721-21730	3.8	11
168	Hybrid Transparent PEDOT:PSS Molybdenum Oxide Battery-like Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4629-4639	6.1	23
167	Examining the effects of microencapsulated phase change materials on early-age temperature evolutions in realistic pavement geometries. <i>Cement and Concrete Composites</i> , 2019 , 103, 149-159	8.6	14
166	Thermal signature of ion intercalation and surface redox reactions mechanisms in model pseudocapacitive electrodes. <i>Electrochimica Acta</i> , 2019 , 307, 512-524	6.7	6
165	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. <i>Electrochimica Acta</i> , 2019 , 303, 341-353	6.7	9
164	Theoretical validation of the step potential electrochemical spectroscopy (SPECS) and multiple potential step chronoamperometry (MUSCA) methods for pseudocapacitive electrodes. <i>Electrochimica Acta</i> , 2019 , 321, 134648	6.7	1
163	Thick Transparent Nanoparticle-Based Mesoporous Silica Monolithic Slabs for Thermally Insulating Window Materials. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4547-4555	5.6	12
162	Artificial phototropism for omnidirectional tracking and harvesting of light. <i>Nature Nanotechnology</i> , 2019 , 14, 1048-1055	28.7	114
161	Computer-generated mesoporous materials and associated structural characterization. <i>Computational Materials Science</i> , 2019 , 157, 156-167	3.2	7
160	Can the compressive strength of concrete be estimated from knowledge of the mixture proportions?: New insights from statistical analysis and machine learning methods. <i>Cement and Concrete Research</i> , 2019 , 115, 379-388	10.3	93

159	Light transfer through windows with external condensation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 208, 164-171	2.1	9
158	Reduced-scale experiments to evaluate performance of composite building envelopes containing phase change materials. <i>Construction and Building Materials</i> , 2018 , 162, 584-595	6.7	22
157	Isothermal calorimeter for measurements of time-dependent heat generation rate in individual supercapacitor electrodes. <i>Journal of Power Sources</i> , 2018 , 374, 257-268	8.9	22
156	Physical Interpretations of Nyquist Plots for EDLC Electrodes and Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 194-206	3.8	428
155	Clinkering-free cementation by fly ash carbonation. <i>Journal of CO2 Utilization</i> , 2018 , 23, 117-127	7.6	38
154	Isothermal Stimulation of Mineral Dissolution Processes by Acoustic Perturbation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28665-28673	3.8	6
153	Pyroelectric waste heat energy harvesting using the Olsen cycle on Pb(Zr, Ti)O ₃ -Pb(Ni, Nb)O ₃ ceramics. <i>Journal of Applied Physics</i> , 2018 , 124, 174104	2.5	12
152	Physical Interpretations of Electrochemical Impedance Spectroscopy of Redox Active Electrodes for Electrical Energy Storage. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24499-24511	3.8	57
151	Effect of surface hydroxyl groups on heat capacity of mesoporous silica. <i>Applied Physics Letters</i> , 2018 , 112, 201903	3.4	8
150	Effects of Constituent Materials on Heat Generation in Individual EDLC Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1547-A1557	3.9	11
149	Early-age temperature evolutions in concrete pavements containing microencapsulated phase change materials. <i>Construction and Building Materials</i> , 2017 , 147, 466-477	6.7	33
148	The durability of cementitious composites containing microencapsulated phase change materials. <i>Cement and Concrete Composites</i> , 2017 , 81, 66-76	8.6	58
147	A general method for retrieving thermal deformation properties of microencapsulated phase change materials or other particulate inclusions in cementitious composites. <i>Materials and Design</i> , 2017 , 126, 259-267	8.1	14
146	Light transfer in agar immobilized microalgae cell cultures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 198, 81-92	2.1	8
145	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <i>Langmuir</i> , 2017 , 33, 9407-9415	4	56
144	Simple thermal evaluation of building envelopes containing phase change materials using a modified admittance method. <i>Energy and Buildings</i> , 2017 , 145, 238-250	7	13
143	Transmittance of transparent windows with non-absorbing cap-shaped droplets condensed on their backside. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 194, 98-107	2.1	19
142	Multidimensional Cyclic Voltammetry Simulations of Pseudocapacitive Electrodes with a Conducting Nanorod Scaffold. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3237-A3252	3.9	13

141	Three-Dimensional Cyclic Voltammetry Simulations of EDLC Electrodes Made of Ordered Carbon Spheres. <i>Electrochimica Acta</i> , 2017 , 255, 168-178	6.7	11
140	Transmittance of semitransparent windows with absorbing cap-shaped droplets condensed on their backside. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 201, 53-63	2.1	12
139	Restrained shrinkage cracking of cementitious composites containing soft PCM inclusions: A paste (matrix) controlled response. <i>Materials and Design</i> , 2017 , 132, 367-374	8.1	12
138	Thermal conductivity of cementitious composites containing microencapsulated phase change materials. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 71-82	4.9	52
137	First-principles thermal modeling of hybrid pseudocapacitors under galvanostatic cycling. <i>Journal of Power Sources</i> , 2016 , 335, 172-188	8.9	14
136	Simple method for measuring the spectral absorption cross-section of microalgae. <i>Chemical Engineering Science</i> , 2016 , 146, 357-368	4.4	24
135	Electrochemical Transport Phenomena in Hybrid Pseudocapacitors under Galvanostatic Cycling. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A229-A243	3.9	11
134	Radiation characteristics and effective optical properties of dumbbell-shaped cyanobacterium <i>Synechocystis</i> sp.. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 174, 65-78	2.1	3
133	Comparison of experimentally and theoretically determined radiation characteristics of photosynthetic microorganisms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 175, 30-45	2.1	29
132	Figure of merit for the thermal performance of cementitious composites containing phase change materials. <i>Cement and Concrete Composites</i> , 2016 , 65, 214-226	8.6	26
131	Effective elastic moduli of core-shell-matrix composites. <i>Mechanics of Materials</i> , 2016 , 92, 94-106	3.3	26
130	PYROELECTRIC ENERGY CONVERSION. <i>Annual Review of Heat Transfer</i> , 2016 , 19, 279-334	2.7	6
129	Large-Scale Production of Algal Biomass: Photobioreactors. <i>Green Energy and Technology</i> , 2016 , 41-66	0.6	16
128	Simulations and Interpretation of Three-Electrode Cyclic Voltammograms of Pseudocapacitive Electrodes. <i>Electrochimica Acta</i> , 2016 , 211, 420-429	6.7	24
127	Conductive and Radiative Properties of Soda-Lime Silicate Glassmelts with Different Iron Contents from 1100°C to 1500°C. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1271-1279	3.8	3
126	Confined Water in Layered Silicates: The Origin of Anomalous Thermal Expansion Behavior in Calcium-Silicate-Hydrates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35621-35627	9.5	34
125	The influences of soft and stiff inclusions on the mechanical properties of cementitious composites. <i>Cement and Concrete Composites</i> , 2016 , 71, 153-165	8.6	25
124	Interaction Between Light and Photosynthetic Microorganisms. <i>Advances in Chemical Engineering</i> , 2016 , 48, 107-149	0.6	5

123	Can spherical eukaryotic microalgae cells be treated as optically homogeneous?. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016 , 33, 1495-503	1.8	15
122	Recent Advances in Continuum Modeling of Interfacial and Transport Phenomena in Electric Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5158-A5178	3.9	80
121	Annual energy analysis of concrete containing phase change materials for building envelopes. <i>Energy Conversion and Management</i> , 2015 , 103, 374-386	10.6	53
120	Physical Interpretation of Cyclic Voltammetry for Hybrid Pseudocapacitors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11349-11361	3.8	46
119	Enhancing Faradaic Charge Storage Contribution in Hybrid Pseudocapacitors. <i>Electrochimica Acta</i> , 2015 , 182, 639-651	6.7	20
118	Absorption and scattering by fractal aggregates and by their equivalent coated spheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 151, 310-326	2.1	30
117	Thermal effects of asymmetric electrolytes in electric double layer capacitors. <i>Journal of Power Sources</i> , 2015 , 273, 196-209	8.9	30
116	Diurnal thermal analysis of microencapsulated PCM-concrete composite walls. <i>Energy Conversion and Management</i> , 2015 , 93, 215-227	10.6	95
115	Absorption and scattering by bispheres, quadspheres, and circular rings of spheres and their equivalent coated spheres. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 46-60	1.8	13
114	Design tool and guidelines for outdoor photobioreactors. <i>Chemical Engineering Science</i> , 2014 , 106, 18-29	4.4	60
113	First-principles thermal modeling of electric double layer capacitors under constant-current cycling. <i>Journal of Power Sources</i> , 2014 , 246, 887-898	8.9	60
112	Control of incident irradiance on a batch operated flat-plate photobioreactor. <i>Chemical Engineering Science</i> , 2014 , 119, 99-108	4.4	30
111	Panoramic View of Electrochemical Pseudocapacitor and Organic Solar Cell Research in Molecularly Engineered Energy Materials (MEEM). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19505-19523	3.8	15
110	Radiation characteristics and optical properties of filamentous cyanobacterium <i>Anabaena cylindrica</i> . <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 836-845	1.8	13
109	First-order thermal model of commercial EDLCs. <i>Applied Thermal Engineering</i> , 2014 , 67, 439-446	5.8	14
108	Effective thermal conductivity of three-component composites containing spherical capsules. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 177-185	4.9	60
107	A novel thermomechanical energy conversion cycle. <i>Applied Energy</i> , 2014 , 126, 78-89	10.7	39
106	Time-dependent radiation characteristics of <i>Nannochloropsis oculata</i> during batch culture. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 144, 154-163	2.1	18

105	Influence of light absorption rate by <i>Nannochloropsis oculata</i> on triglyceride production during nitrogen starvation. <i>Bioresource Technology</i> , 2014 , 163, 308-19	11	51
104	Effective Thermal Conductivity of Soda-Lime Silicate Glassmelts with Different Iron Contents Between 1100°C and 1500°C. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 442-450	3.8	15
103	Scaling laws for heat generation and temperature oscillations in EDLCs under galvanostatic cycling. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 637-649	4.9	10
102	Scaling laws for carbon-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2013 , 109, 316-321	6.7	14
101	Simulations of Cyclic Voltammetry for Electric Double Layers in Asymmetric Electrolytes: A Generalized Modified Poisson-Nernst-Planck Model. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18286-18297	2.8	69
100	Radiation and optical properties of <i>Nannochloropsis oculata</i> grown under different irradiances and spectra. <i>Bioresource Technology</i> , 2013 , 137, 63-73	11	68
99	Spectral optical properties of selected photosynthetic microalgae producing biofuels. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 114, 122-135	2.1	44
98	Scaling laws in steady-state aqueous foams including Ostwald ripening. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 1000-1006	5.1	17
97	A High-Order-Accurate GPU-Based Radiative Transfer Equation Solver for Combustion and Propulsion Applications. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2013 , 63, 457-484	1.3	10
96	Mesoscale modeling of electric double layer capacitors with three-dimensional ordered structures. <i>Journal of Power Sources</i> , 2013 , 221, 252-260	8.9	60
95	Absorption and scattering by long and randomly oriented linear chains of spheres. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013 , 30, 1892-900	1.8	16
94	Phase transitions and thermal expansion in pyroelectric energy conversion. <i>Applied Physics Letters</i> , 2013 , 102, 023906	3.4	19
93	A novel thermally biased mechanical energy conversion cycle. <i>Journal of Applied Physics</i> , 2013 , 114, 224113	1.3	14
92	Pyroelectric energy conversion using PLZT ceramics and the ferroelectric-ergodic relaxor phase transition. <i>Smart Materials and Structures</i> , 2013 , 22, 025038	3.4	56
91	Intrinsic limitations of impedance measurements in determining electric double layer capacitances. <i>Electrochimica Acta</i> , 2012 , 63, 55-63	6.7	59
90	Physical interpretation of cyclic voltammetry for measuring electric double layer capacitances. <i>Electrochimica Acta</i> , 2012 , 64, 130-139	6.7	101
89	Reply to comments on Intrinsic limitations of impedance measurements in determining electric double layer capacitances by H. Wang, L. Pilon [Electrochimica Acta 63 (2012) 55]. <i>Electrochimica Acta</i> , 2012 , 76, 529-531	6.7	23
88	Convective heat transfer in foams under laminar flow in pipes and tube bundles. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7823-7831	4.9	17

87	Foams in Glass Manufacturing 2012 , 355-409		10
86	Pyroelectric waste heat energy harvesting using relaxor ferroelectric 8/65/35 PLZT and the Olsen cycle. <i>Smart Materials and Structures</i> , 2012 , 21, 025021	3.4	82
85	Thermal Conductivity of Ordered Mesoporous Nanocrystalline Silicon Thin Films Made from Magnesium Reduction of Polymer-Templated Silica. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12926-12933	3.8	32
84	Pyroelectric energy converter for harvesting waste heat: Simulations versus experiments. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4301-4311	4.9	17
83	Pyroelectric waste heat energy harvesting using heat conduction. <i>Applied Thermal Engineering</i> , 2012 , 37, 30-37	5.8	84
82	Waste heat energy harvesting using the Olsen cycle on 0.945Pb(Zn _{1/3} Nb _{2/3})O ₃ □0.055PbTiO ₃ single crystals. <i>Smart Materials and Structures</i> , 2012 , 21, 035015	3.4	62
81	Temperature dependent thermal conductivity of pure silica MEL and MFI zeolite thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 054910	2.5	6
80	Tuning thermal conductivity of nanoporous crystalline silicon by surface passivation: A molecular dynamics study. <i>Applied Physics Letters</i> , 2012 , 101, 011909	3.4	13
79	Direct thermal to electrical energy conversion using 9.5/65/35 PLZT ceramics in the ergodic relaxor phase. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 2373-85	3.2	14
78	Scaling Analysis of Thermal Behavior of Electrical Double Layers 2012 ,		1
77	Pyroelectric Energy Harvesting Using the Olsen Cycle on Relaxor Ferroelectric 8/65/35 PLZT 2012 ,		2
76	The pyroelectric energy harvesting capabilities of PMNBT near the morphotropic phase boundary. <i>Smart Materials and Structures</i> , 2011 , 20, 055020	3.4	108
75	Pyroelectric energy harvesting using Olsen cycles in purified and porous poly(vinylidene fluoride-trifluoroethylene) [P(VDF-TrFE)] thin films. <i>Smart Materials and Structures</i> , 2011 , 20, 025012	3.4	107
74	Thermal Conductivity of Highly-Ordered Mesoporous Titania Thin Films from 30 to 320 K. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 14606-14614	3.8	30
73	Radiation transfer in photobiological carbon dioxide fixation and fuel production by microalgae. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 2639-2660	2.1	126
72	Retrieving skin properties from in vivo spectral reflectance measurements. <i>Journal of Biophotonics</i> , 2011 , 4, 305-14	3.1	32
71	Monitoring temporal development and healing of diabetic foot ulceration using hyperspectral imaging. <i>Journal of Biophotonics</i> , 2011 , 4, 565-76	3.1	35
70	Accurate Simulations of Electric Double Layer Capacitance of Ultramicroelectrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16711-16719	3.8	191

69	Simulating Electric Double Layer Capacitance of Mesoporous Electrodes with Cylindrical Pores. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1106	3.9	41
68	Simulation of electric double layer capacitors with mesoporous electrodes: Effects of morphology and electrolyte permittivity. <i>Electrochimica Acta</i> , 2011 , 56, 6189-6197	6.7	60
67	Molecular dynamics study of the thermal conductivity of amorphous nanoporous silica. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4540-4548	4.9	54
66	Scaling laws for thermal conductivity of crystalline nanoporous silicon based on molecular dynamics simulations. <i>Journal of Applied Physics</i> , 2011 , 110, 064305	2.5	34
65	Assessing diabetic foot ulcer development risk with hyperspectral tissue oximetry. <i>Journal of Biomedical Optics</i> , 2011 , 16, 026009	3.5	65
64	Hyperspectral imaging in diabetic foot wound care. <i>Journal of Diabetes Science and Technology</i> , 2010 , 4, 1099-113	4.1	93
63	Two-layer optical model of skin for early, non-invasive detection of wound development on the diabetic foot 2010 ,		4
62	Thermal conductivity of pure silica MEL and MFI zeolite thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 044902	2.5	8
61	Harvesting Nanoscale Thermal Radiation Using Pyroelectric Materials. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	41
60	Thermal Conductivity of Ordered Mesoporous Titania Films Made from Nanocrystalline Building Blocks and Sol-Gel Reagents. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12451-12458	3.8	38
59	Rapid and accurate estimation of blood saturation, melanin content, and epidermis thickness from spectral diffuse reflectance. <i>Applied Optics</i> , 2010 , 49, 1707-19	0.2	64
58	Modeling the local excitation fluence rate and fluorescence emission in absorbing and strongly scattering multilayered media 2010 , 49, 6072		15
57	Purified and porous poly(vinylidene fluoride-trifluoroethylene) thin films for pyroelectric infrared sensing and energy harvesting. <i>Smart Materials and Structures</i> , 2010 , 19, 055006	3.4	71
56	Improved Pyroelectric Energy Converter for Waste Heat Energy Harvesting Using Co-Polymer P(VDF-TrFE) and Olsen Cycle 2010 ,		1
55	Pyroelectric energy converter using co-polymer P(VDF-TrFE) and Olsen cycle for waste heat energy harvesting. <i>Applied Thermal Engineering</i> , 2010 , 30, 2127-2137	5.8	117
54	Towards optimization of a pyroelectric energy converter for harvesting waste heat. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4060-4070	4.9	58
53	Maximizing the solar to H ₂ energy conversion efficiency of outdoor photobioreactors using mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 500-510	6.7	31
52	Reflectance of surfactant-templated mesoporous silica thin films: Simulations versus experiments. <i>Thin Solid Films</i> , 2010 , 518, 2134-2140	2.2	18

51	Effective optical properties of highly ordered mesoporous thin films. <i>Thin Solid Films</i> , 2010 , 518, 2141-2146	58
50	Radiative heat transfer in enhanced hydrogen outgassing of glass. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6690-6704	6.7 16
49	Radiation characteristics of <i>Botryococcus braunii</i> , <i>Chlorococcum littorale</i> , and <i>Chlorella</i> sp. used for fixation and biofuel production. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009 , 110, 1879-1893	2.1 60
48	Rheology of colloidal gas aphrons (microfoams) made from different surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 348, 93-99	5.1 15
47	Simple and accurate expressions for diffuse reflectance of semi-infinite and two-layer absorbing and scattering media. <i>Applied Optics</i> , 2009 , 48, 6670-83	0.2 27
46	Thermal conductivity of cubic and hexagonal mesoporous silica thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 034910	2.5 60
45	In vivo time-resolved autofluorescence measurements to test for glycation of human skin. <i>Journal of Biomedical Optics</i> , 2008 , 13, 014004	3.5 20
44	Growth, CO ₂ consumption and H ₂ production of <i>Anabaena variabilis</i> ATCC 29413-U under different irradiances and CO ₂ concentrations. <i>Journal of Applied Microbiology</i> , 2008 , 104, 105-21	4.7 17
43	Rheology of colloidal gas aphrons (microfoams). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 322, 199-210	5.1 33
42	Effect of polarization and morphology on the optical properties of absorbing nanoporous thin films. <i>Thin Solid Films</i> , 2008 , 516, 4159-4167	2.2 29
41	Simulations of a prototypical device using pyroelectric materials for harvesting waste heat. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5052-5062	4.9 35
40	Effect of nutrient media on photobiological hydrogen production by <i>Anabaena variabilis</i> ATCC 29413. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1172-1184	6.7 61
39	Radiation characteristics of <i>Chlamydomonas reinhardtii</i> CC125 and its truncated chlorophyll antenna transformants <i>tla1</i> , <i>tlaX</i> and <i>tla1-CW+</i> . <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6467-6483	6.7 80
38	The effect of nanoparticles on the thermal conductivity of crystalline thin films at low temperatures. <i>Journal of Applied Physics</i> , 2008 , 103, 114308	2.5 21
37	Light transfer in bubble sparged photobioreactors for H ₂ production and CO ₂ mitigation. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2273-2285	6.7 73
36	Experimental measurements of the radiation characteristics of <i>Anabaena variabilis</i> ATCC 29413-U and <i>Rhodobacter sphaeroides</i> ATCC 49419. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4772-4785	6.7 43
35	Maximum time-resolved hemispherical reflectance of absorbing and isotropically scattering media. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 104, 384-399	2.1 6
34	Thermal Conductivity of Cubic Mesoporous Silica Thin Films 2007 , 657	

33	Feasibility analysis of an epidermal glucose sensor based on time-resolved fluorescence. <i>Applied Optics</i> , 2007 , 46, 3359-68	1.7	6
32	Optical constants of silica glass from extreme ultraviolet to far infrared at near room temperature. <i>Applied Optics</i> , 2007 , 46, 8118-33	1.7	596
31	Effective optical properties of absorbing nanoporous and nanocomposite thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 014320	2.5	84
30	Improved Inverse Method for Radiative Characteristics of Closed-Cell Absorbing Porous Media. <i>Journal of Thermophysics and Heat Transfer</i> , 2006 , 20, 871-883	1.3	33
29	Modeling radiation characteristics of semitransparent media containing bubbles or particles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 1645-56	1.8	26
28	Efficiency factors and radiation characteristics of spherical scatterers in an absorbing medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2784-96	1.8	34
27	Steady-state directional diffuse reflectance and fluorescence of human skin. <i>Applied Optics</i> , 2006 , 45, 4174-83	1.7	22
26	Effect of furnace atmosphere on E-glass foaming. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5287-5295	3.9	18
25	In vivo time-resolved autofluorescence measurements on human skin 2006 ,		3
24	Optical Properties of Nanocomposite Thin-Films 2006 , 177		
23	Rheology and convective heat transfer of colloidal gas aphrons in horizontal mini-channels. <i>International Journal of Heat and Fluid Flow</i> , 2006 , 27, 298-310	2.4	18
22	Modified method of characteristics in transient radiation transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 98, 220-237	2.1	16
21	Optical properties of porous silicon. Part III: Comparison of experimental and theoretical results. <i>Optical Materials</i> , 2006 , 28, 506-513	3.3	67
20	Effective optical properties of non-absorbing nanoporous thin films. <i>Thin Solid Films</i> , 2006 , 496, 505-514	2.2	141
19	Use of Mie theory to analyze experimental data to identify infrared properties of fused quartz containing bubbles. <i>Applied Optics</i> , 2005 , 44, 7021-31	1.7	53
18	Effective Optical Properties of Nanoporous Silicon 2005 , 463		1
17	Physical Modeling of Slag Foaming for Various Operating Conditions and Slag Compositions. <i>ISIJ International</i> , 2005 , 45, 835-840	1.7	25
16	Flow and Heat Transfer of Microfoams in Horizontal Minichannels 2004 , 677		

15	Modified Method of Characteristics for Simulating Microscale Energy Transport. <i>Journal of Heat Transfer</i> , 2004 , 126, 735-743	1.8	22
14	Minimum superficial gas velocity for onset of foaming. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 149-160	3.7	36
13	Bubble transport in three-dimensional laminar gravity-driven flow [numerical results]. <i>Journal of Non-Crystalline Solids</i> , 2004 , 336, 84-95	3.9	10
12	Bubble transport in three-dimensional laminar gravity-driven flow [mathematical formulation]. <i>Journal of Non-Crystalline Solids</i> , 2004 , 336, 71-83	3.9	16
11	Measurements of radiation characteristics of fused quartz containing bubbles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004 , 21, 149-59	1.8	22
10	Ultra-Short Pulsed Laser Transport in a Multilayered Turbid Media 2004 ,		2
9	BACKWARD METHOD OF CHARACTERISTICS IN RADIATIVE HEAT TRANSFER 2004 ,		2
8	Modified method of characteristics for solving population balance equations. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 42, 1211-1236	1.9	11
7	Radiation Characteristics of Glass Containing Gas Bubbles. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1313-1320	3.8	23
6	Analysis of transient thickness of pneumatic foams. <i>Chemical Engineering Science</i> , 2002 , 57, 977-990	4.4	26
5	Glass foams: formation, transport properties, and heat, mass, and radiation transfer. <i>Journal of Non-Crystalline Solids</i> , 2002 , 311, 154-173	3.9	44
4	Steady-State Thickness of Liquid Gas Foams. <i>Journal of Colloid and Interface Science</i> , 2001 , 242, 425-436	9.3	44
3	Gas Diffusion in Closed-Cell Foams. <i>Journal of Cellular Plastics</i> , 2000 , 36, 451-474	1.5	24
2	How bubbles affect light absorption in photoelectrodes for solar water splitting?. <i>Sustainable Energy and Fuels</i> ,	5.8	1
1	Hysteresis in electrochemical systems20210017		4