

Laurent Pilon

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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	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
193	Physical Interpretations of Nyquist Plots for EDLC Electrodes and Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 194-206	3.8	428
192	Accurate Simulations of Electric Double Layer Capacitance of Ultramicroelectrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16711-16719	3.8	191
191	Effective optical properties of non-absorbing nanoporous thin films. <i>Thin Solid Films</i> , 2006 , 496, 505-514	2.2	141
190	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
189	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
188	Artificial phototropism for omnidirectional tracking and harvesting of light. <i>Nature Nanotechnology</i> , 2019 , 14, 1048-1055	28.7	114
187	The pyroelectric energy harvesting capabilities of PMNBT near the morphotropic phase boundary. <i>Smart Materials and Structures</i> , 2011 , 20, 055020	3.4	108
186	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
185	Physical interpretation of cyclic voltammetry for measuring electric double layer capacitances. <i>Electrochimica Acta</i> , 2012 , 64, 130-139	6.7	101
184	Diurnal thermal analysis of microencapsulated PCM-concrete composite walls. <i>Energy Conversion and Management</i> , 2015 , 93, 215-227	10.6	95
183	Hyperspectral imaging in diabetic foot wound care. <i>Journal of Diabetes Science and Technology</i> , 2010 , 4, 1099-113	4.1	93
182	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
181	Pyroelectric waste heat energy harvesting using heat conduction. <i>Applied Thermal Engineering</i> , 2012 , 37, 30-37	5.8	84
180	Effective optical properties of absorbing nanoporous and nanocomposite thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 014320	2.5	84
179	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
178	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

177	Radiation characteristics of <i>Chlamydomonas reinhardtii</i> CC125 and its truncated chlorophyll antenna transformants tla1, tlaX and tla1-CW+. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6467-6483	6.7	80
176	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
175	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
174	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	3.8	69
173	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
172	Optical properties of porous silicon. Part III: Comparison of experimental and theoretical results. <i>Optical Materials</i> , 2006 , 28, 506-513	3.3	67
171	Assessing diabetic foot ulcer development risk with hyperspectral tissue oximetry. <i>Journal of Biomedical Optics</i> , 2011 , 16, 026009	3.5	65
170	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
169	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
168	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
167	Design tool and guidelines for outdoor photobioreactors. <i>Chemical Engineering Science</i> , 2014 , 106, 18-29	4.4	60
166	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
165	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
164	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
163	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
162	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
161	Thermal conductivity of cubic and hexagonal mesoporous silica thin films. <i>Journal of Applied Physics</i> , 2009 , 106, 034910	2.5	60
160	Intrinsic limitations of impedance measurements in determining electric double layer capacitances. <i>Electrochimica Acta</i> , 2012 , 63, 55-63	6.7	59

159	The durability of cementitious composites containing microencapsulated phase change materials. <i>Cement and Concrete Composites</i> , 2017 , 81, 66-76	8.6	58
158	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
157	Effective optical properties of highly ordered mesoporous thin films. <i>Thin Solid Films</i> , 2010 , 518, 2141-2146	4.6	58
156	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
155	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <i>Langmuir</i> , 2017 , 33, 9407-9415	4	56
154	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
153	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
152	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
151	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
150	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
149	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
148	Physical Interpretation of Cyclic Voltammetry for Hybrid Pseudocapacitors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11349-11361	3.8	46
147	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
146	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
145	Steady-State Thickness of Liquid-Gas Foams. <i>Journal of Colloid and Interface Science</i> , 2001 , 242, 425-436	9.3	44
144	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
143	Harvesting Nanoscale Thermal Radiation Using Pyroelectric Materials. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	41
142	Simulating Electric Double Layer Capacitance of Mesoporous Electrodes with Cylindrical Pores. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1106	3.9	41

141	A novel thermomechanical energy conversion cycle. <i>Applied Energy</i> , 2014 , 126, 78-89	10.7	39
140	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
139	Clinkering-free cementation by fly ash carbonation. <i>Journal of CO2 Utilization</i> , 2018 , 23, 117-127	7.6	38
138	Minimum superficial gas velocity for onset of foaming. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 149-160	3.7	36
137	Monitoring temporal development and healing of diabetic foot ulceration using hyperspectral imaging. <i>Journal of Biophotonics</i> , 2011 , 4, 565-76	3.1	35
136	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
135	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
134	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
133	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
132	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
131	Rheology of colloidal gas aphrons (microfoams). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 322, 199-210	5.1	33
130	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
129	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
128	Retrieving skin properties from in vivo spectral reflectance measurements. <i>Journal of Biophotonics</i> , 2011 , 4, 305-14	3.1	32
127	Maximizing the solar to H2 energy conversion efficiency of outdoor photobioreactors using mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 500-510	6.7	31
126	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
125	Thermal effects of asymmetric electrolytes in electric double layer capacitors. <i>Journal of Power Sources</i> , 2015 , 273, 196-209	8.9	30
124	Control of incident irradiance on a batch operated flat-plate photobioreactor. <i>Chemical Engineering Science</i> , 2014 , 119, 99-108	4.4	30

123	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
122	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
121	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
120	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
119	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
118	Effective elastic moduli of core-shell-matrix composites. <i>Mechanics of Materials</i> , 2016 , 92, 94-106	3.3	26
117	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
116	Analysis of transient thickness of pneumatic foams. <i>Chemical Engineering Science</i> , 2002 , 57, 977-990	4.4	26
115	Physical Modeling of Slag Foaming for Various Operating Conditions and Slag Compositions. <i>ISIJ International</i> , 2005 , 45, 835-840	1.7	25
114	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
113	Simple method for measuring the spectral absorption cross-section of microalgae. <i>Chemical Engineering Science</i> , 2016 , 146, 357-368	4.4	24
112	Gas Diffusion in Closed-Cell Foams. <i>Journal of Cellular Plastics</i> , 2000 , 36, 451-474	1.5	24
111	Simulations and Interpretation of Three-Electrode Cyclic Voltammograms of Pseudocapacitive Electrodes. <i>Electrochimica Acta</i> , 2016 , 211, 420-429	6.7	24
110	Hybrid Transparent PEDOT:PSS Molybdenum Oxide Battery-like Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4629-4639	6.1	23
109	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
108	Radiation Characteristics of Glass Containing Gas Bubbles. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1313-1320	3.8	23
107	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
106	Steady-state directional diffuse reflectance and fluorescence of human skin. <i>Applied Optics</i> , 2006 , 45, 4174-83	1.7	22

105	Modified Method of Characteristics for Simulating Microscale Energy Transport. <i>Journal of Heat Transfer</i> , 2004 , 126, 735-743	1.8	22
104	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
103	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
102	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
101	Enhancing Faradaic Charge Storage Contribution in Hybrid Pseudocapacitors. <i>Electrochimica Acta</i> , 2015 , 182, 639-651	6.7	20
100	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
99	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
98	Phase transitions and thermal expansion in pyroelectric energy conversion. <i>Applied Physics Letters</i> , 2013 , 102, 023906	3.4	19
97	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
96	Reflectance of surfactant-templated mesoporous silica thin films: Simulations versus experiments. <i>Thin Solid Films</i> , 2010 , 518, 2134-2140	2.2	18
95	Effect of furnace atmosphere on E-glass foaming. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5287-5295	3.9	18
94	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
93	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
92	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
91	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
90	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
89	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
88	Radiative heat transfer in enhanced hydrogen outgassing of glass. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 6690-6704	6.7	16

87	Modified method of characteristics in transient radiation transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006 , 98, 220-237	2.1	16
86	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
85	Large-Scale Production of Algal Biomass: Photobioreactors. <i>Green Energy and Technology</i> , 2016 , 41-66	0.6	16
84	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
83	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
82	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
81	Modeling the local excitation fluence rate and fluorescence emission in absorbing and strongly scattering multilayered media 2010 , 49, 6072		15
80	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
79	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
78	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
77	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
76	First-principles thermal modeling of hybrid pseudocapacitors under galvanostatic cycling. <i>Journal of Power Sources</i> , 2016 , 335, 172-188	8.9	14
75	First-order thermal model of commercial EDLCs. <i>Applied Thermal Engineering</i> , 2014 , 67, 439-446	5.8	14
74	Scaling laws for carbon-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2013 , 109, 316-321	6.7	14
73	A novel thermally biased mechanical energy conversion cycle. <i>Journal of Applied Physics</i> , 2013 , 114, 224113	1.3	14
72	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
71	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
70	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

69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	Three-Dimensional Cyclic Voltammetry Simulations of EDLC Electrodes Made of Ordered Carbon Spheres. <i>Electrochimica Acta</i> , 2017 , 255, 168-178	6.7	11
61	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
60	Electrochemical Transport Phenomena in Hybrid Pseudocapacitors under Galvanostatic Cycling. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A229-A243	3.9	11
59	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
58	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
57	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
56	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
55	Foams in Glass Manufacturing 2012 , 355-409		10
54	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
53	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
52	Effect of dew and rain on photovoltaic solar cell performances. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 222, 110908	6.4	10

51	Heat generation in all-solid-state supercapacitors with graphene electrodes and gel electrolytes. <i>Electrochimica Acta</i> , 2019 , 303, 341-353	6.7	9
50	Light transfer through windows with external condensation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 208, 164-171	2.1	9
49	Light transfer in agar immobilized microalgae cell cultures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 198, 81-92	2.1	8
48	Thermal conductivity of pure silica MEL and MFI zeolite thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 044902	2.5	8
47	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
46	Effect of surface hydroxyl groups on heat capacity of mesoporous silica. <i>Applied Physics Letters</i> , 2018 , 112, 201903	3.4	8
45	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
44	Operando calorimetry informs the origin of rapid rate performance in microwave-prepared TiNb ₂ O ₇ electrodes. <i>Journal of Power Sources</i> , 2021 , 490, 229537	8.9	7
43	Computer-generated mesoporous materials and associated structural characterization. <i>Computational Materials Science</i> , 2019 , 157, 156-167	3.2	7
42	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
41	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
40	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
39	Feasibility analysis of an epidermal glucose sensor based on time-resolved fluorescence. <i>Applied Optics</i> , 2007 , 46, 3359-68	1.7	6
38	Engineering mesoporous silica for superior optical and thermal properties. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	6
37	PYROELECTRIC ENERGY CONVERSION. <i>Annual Review of Heat Transfer</i> , 2016 , 19, 279-334	2.7	6
36	Isothermal Stimulation of Mineral Dissolution Processes by Acoustic Perturbation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28665-28673	3.8	6
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