

Sk Chou

List of Publications by Year in descending order

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152
papers

10,569
citations

23500

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35952

97
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163
times ranked

7403
citing authors

#	ARTICLE	IF	CITATIONS
1	COVID-19 Impact on Operation and Energy Consumption of Heating, Ventilation and Air-Conditioning (HVAC) Systems. <i>Advances in Applied Energy</i> , 2021, 3, 100040.	6.6	73
2	Thermal modelling and optimization of low-grade waste heat driven ejector refrigeration system incorporating a direct ejector model. <i>Applied Thermal Engineering</i> , 2020, 167, 114710.	3.0	33
3	On the experimental study of a hybrid dehumidifier comprising membrane and composite desiccants. <i>Applied Energy</i> , 2018, 220, 934-943.	5.1	18
4	Cold gas propulsion microthruster for feed gas utilization in micro satellites. <i>Applied Energy</i> , 2018, 220, 921-933.	5.1	21
5	Transformative innovations for a sustainable future – Part III. <i>Applied Energy</i> , 2018, 227, 1-6.	5.1	2
6	Numerical investigation on the combustion and emissions of a kerosene-diesel fueled compression ignition engine assisted by ammonia fumigation. <i>Applied Energy</i> , 2017, 204, 1476-1488.	5.1	50
7	Energy performance evaluation and application of an air treatment system for conditioning building spaces in tropics. <i>Applied Energy</i> , 2017, 204, 1500-1512.	5.1	17
8	Investigation on a combined air treatment process for air-conditioning system. <i>Energy Procedia</i> , 2017, 142, 1874-1879.	1.8	0
9	Energy saving potential of an air treatment system for improved building indoor air quality in Singapore. <i>Energy Procedia</i> , 2017, 143, 283-288.	1.8	5
10	Numerical modeling and thermal enhancement of finned tube heat exchanger with guiding channel and fusiform configurations. , 2016, , .		2
11	Numerical investigation of the thermal-hydraulic performance of finned oblique-shaped tube heat exchanger. , 2016, , .		2
12	Enhanced air-side performance of finned tube heat exchanger with oval obstacles for residential air-conditioning systems - numerical approach. , 2016, , .		3
13	Energy solutions for a sustainable world. <i>International Journal of Green Energy</i> , 2016, 13, 757-758.	2.1	0
14	Power management of vessel propulsion system for thrust efficiency and emissions mitigation. <i>Applied Energy</i> , 2016, 161, 124-132.	5.1	41
15	An Overall Ship Propulsion Model for Fuel Efficiency Study. <i>Energy Procedia</i> , 2015, 75, 813-818.	1.8	12
16	Numerical Simulation on Spray Characteristics of Ether Fuels. <i>Energy Procedia</i> , 2015, 75, 919-924.	1.8	9
17	Multiple Injections Study Based on an Advanced Combustion Investigation System. <i>Energy Procedia</i> , 2015, 75, 900-905.	1.8	6
18	Performance Emission and Economic Analysis of Preheated CNSL Biodiesel as an Alternate Fuel for a Diesel Engine. <i>International Journal of Green Energy</i> , 2015, 12, 359-367.	2.1	31

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19	Numerical investigation on the effects of injection rate shaping on combustion and emission characteristics of biodiesel fueled CI engine. Applied Energy, 2015, 160, 737-745.	5.1	37
20	Innovative Research For Sustainable Energy Systems. International Journal of Green Energy, 2015, 12, 191-191.	2.1	0
21	Modeling on blend gasoline/diesel fuel combustion in a direct injection diesel engine. Applied Energy, 2015, 160, 777-783.	5.1	34
22	Recent Advances in Hybrid Drying Technologies. , 2014, , 447-459.		6
23	A numerical modeling on the emission characteristics of a diesel engine fueled by diesel and biodiesel blend fuels. Applied Energy, 2014, 130, 458-465.	5.1	39
24	Impact of ignition promoting additives on the characteristics of a diesel engine powered by pine oilâ€“diesel blend. Fuel, 2014, 117, 278-285.	3.4	86
25	Impact of pine oil biofuel fumigation on gaseous emissions from a diesel engine. Fuel Processing Technology, 2014, 124, 44-53.	3.7	39
26	Effects of piston bowl geometry on combustion and emission characteristics of biodiesel fueled diesel engines. Fuel, 2014, 120, 66-73.	3.4	109
27	Development of an accurate cavitation coupled spray model for diesel engine simulation. Energy Conversion and Management, 2014, 77, 269-277.	4.4	53
28	Pine oilâ€“biodiesel blends: A double biofuel strategy to completely eliminate the use of diesel in a diesel engine. Applied Energy, 2014, 130, 466-473.	5.1	98
29	Reduction of harmful emissions from a diesel engine fueled by kapok methyl ester using combined coating and SNCR technology. Energy Conversion and Management, 2014, 79, 581-589.	4.4	58
30	Optimization of biodiesel fueled engine to meet emission standards through varying nozzle opening pressure and static injection timing. Applied Energy, 2014, 130, 450-457.	5.1	87
31	Life cycle analysis on carbon emissions from power generation â€“ The nuclear energy example. Applied Energy, 2014, 118, 68-82.	5.1	52
32	Experimental study and empirical correlation development of fuel properties of waste cooking palm biodiesel and its diesel blends at elevated temperatures. Renewable Energy, 2014, 68, 282-288.	4.3	25
33	Experimental and finite element analysis of a coated diesel engine fueled by cashew nut shell liquid biodiesel. Experimental Thermal and Fluid Science, 2014, 53, 259-268.	1.5	60
34	The state of nuclear power two years after Fukushima â€“ The ASEAN perspective. Applied Energy, 2014, 136, 838-848.	5.1	29
35	Investigation of evaporation and engine characteristics of pine oil biofuel fumigated in the inlet manifold of a diesel engine. Applied Energy, 2014, 115, 514-524.	5.1	39
36	Numerical investigation on the combustion and emission characteristics of a hydrogen assisted biodiesel combustion in a diesel engine. Fuel, 2014, 120, 186-194.	3.4	52

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37	Ultra-thin minichannel LCP for EV battery thermal management. <i>Applied Energy</i> , 2014, 113, 1786-1794.	5.1	313
38	Effect of adding 1,4-Dioxane with kapok biodiesel on the characteristics of a diesel engine. <i>Applied Energy</i> , 2014, 136, 1166-1173.	5.1	36
39	An advanced combustion model coupled with detailed chemical reaction mechanism for D.I diesel engine simulation. <i>Applied Energy</i> , 2013, 111, 758-770.	5.1	64
40	Experimental investigation of flow boiling heat transfer and instabilities in straight microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 655-671.	2.5	79
41	Fuel injection strategies for performance improvement and emissions reduction in compression ignition engines—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 664-676.	8.2	240
42	Combustion performance and emission characteristics study of pine oil in a diesel engine. <i>Energy</i> , 2013, 57, 344-351.	4.5	148
43	Flow boiling heat transfer and pressure drop in stepped fin microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 234-252.	2.5	66
44	Emission reduction from a diesel engine fueled by pine oil biofuel using SCR and catalytic converter. <i>Atmospheric Environment</i> , 2013, 80, 190-197.	1.9	68
45	Hotspot Mitigating With Obliquely Finned Microchannel Heat Sink—An Experimental Study. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013, 3, 1332-1341.	1.4	41
46	Achieving better energy-efficient air conditioning — A review of technologies and strategies. <i>Applied Energy</i> , 2013, 104, 87-104.	5.1	723
47	Emulsion fuel with novel nano-organic additives for diesel engine application. <i>Fuel</i> , 2013, 104, 726-731.	3.4	129
48	Detailed physical properties prediction of pure methyl esters for biodiesel combustion modeling. <i>Applied Energy</i> , 2013, 102, 647-656.	5.1	80
49	A numerical study on a hydrogen assisted diesel engine. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2919-2928.	3.8	66
50	Performance, combustion and emission characteristics of biodiesel derived from waste cooking oils. <i>Applied Energy</i> , 2013, 112, 493-499.	5.1	185
51	Effects of crucial parameters on the freezing delivery in the cryosurgical system. <i>Applied Thermal Engineering</i> , 2013, 51, 734-741.	3.0	9
52	An updated comprehensive techno-economic analysis of algae biodiesel. <i>Bioresource Technology</i> , 2013, 145, 150-156.	4.8	179
53	Impact of emulsion fuel with nano-organic additives on the performance of diesel engine. <i>Applied Energy</i> , 2013, 112, 1206-1212.	5.1	156
54	Experimental investigation of the performance and emission characteristics of direct injection diesel engine by water emulsion diesel under varying engine load condition. <i>Applied Energy</i> , 2013, 102, 1042-1049.	5.1	224

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55	Experimental investigation of kapok (Ceiba pentandra) oil biodiesel as an alternate fuel for diesel engine. <i>Energy Conversion and Management</i> , 2013, 75, 773-779.	4.4	81
56	Spray and combustion visualization of bio-diesel in a direct injection diesel engine. <i>Thermal Science</i> , 2013, 17, 279-289.	0.5	13
57	Low temperature co-fired ceramic vaporizing liquid microthruster for microspacecraft applications. <i>Applied Energy</i> , 2012, 97, 577-583.	5.1	29
58	An advanced micro modular combustor-radiator with heat recuperation for micro-TPV system application. <i>Applied Energy</i> , 2012, 97, 749-753.	5.1	62
59	Combustion and emissions characteristics of diesel engine fueled by biodiesel at partial load conditions. <i>Applied Energy</i> , 2012, 99, 363-371.	5.1	228
60	Experimental study on micro modular combustor for micro-thermophotovoltaic system application. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9576-9583.	3.8	33
61	Experimental investigations of flow boiling heat transfer and pressure drop in straight and expanding microchannels – A comparative study. <i>International Journal of Thermal Sciences</i> , 2011, 50, 2413-2421.	2.6	142
62	A performance-based method for energy efficiency improvement of buildings. <i>Energy Conversion and Management</i> , 2011, 52, 1829-1839.	4.4	31
63	Research on modular micro combustor-radiator with and without porous media. <i>Chemical Engineering Journal</i> , 2011, 168, 799-802.	6.6	86
64	Development of micro power generators – A review. <i>Applied Energy</i> , 2011, 88, 1-16.	5.1	341
65	Porous media combustion for micro thermophotovoltaic system applications. <i>Applied Energy</i> , 2010, 87, 2862-2867.	5.1	127
66	A thermoeconomic analysis of biomass energy for trigeneration. <i>Applied Energy</i> , 2010, 87, 84-95.	5.1	135
67	Evaluating the performance of shading devices and glazing types to promote energy efficiency of residential buildings. <i>Building Simulation</i> , 2010, 3, 181-194.	3.0	36
68	Advances in heat pump systems: A review. <i>Applied Energy</i> , 2010, 87, 3611-3624.	5.1	691
69	Experimental investigation of porous media combustion in a planar micro-combustor. <i>Fuel</i> , 2010, 89, 708-715.	3.4	100
70	An ETTV-based approach to improving the energy performance of commercial buildings. <i>Energy and Buildings</i> , 2010, 42, 491-499.	3.1	22
71	Energy performance of residential buildings in Singapore. <i>Energy</i> , 2010, 35, 667-678.	4.5	67
72	Development of a One-Dimensional Model to Predict the Flame Temperature in Cylindrical Micro Combustors. <i>Heat Transfer Engineering</i> , 2010, 31, 581-591.	1.2	1

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73	Micro combustion in sub-millimeter channels for novel modular thermophotovoltaic power generators. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125021.	1.5	31
74	A study on the effects of double skin façades on the energy management in buildings. <i>Energy Conversion and Management</i> , 2009, 50, 2275-2281.	4.4	41
75	Development of 1D model for the analysis of heat transport in cylindrical micro combustors. <i>Applied Thermal Engineering</i> , 2009, 29, 1854-1863.	3.0	27
76	On the study of the freeze-thaw thermal process of a biological system. <i>Applied Thermal Engineering</i> , 2009, 29, 3696-3709.	3.0	41
77	A numerical study on premixed micro-combustion of CH ₄ -air mixture: Effects of combustor size, geometry and boundary conditions on flame temperature. <i>Chemical Engineering Journal</i> , 2009, 150, 213-222.	6.6	116
78	Study on premixed combustion in cylindrical micro combustors: Transient flame behavior and wall heat flux. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 764-773.	1.5	69
79	A potential heat source for the micro-thermophotovoltaic (TPV) system. <i>Chemical Engineering Science</i> , 2009, 64, 3282-3289.	1.9	43
80	Characterization of wall temperature and radiation power through cylindrical dump micro-combustors. <i>Combustion and Flame</i> , 2009, 156, 1587-1593.	2.8	59
81	Microthermophotovoltaic power generator with high power density. <i>Applied Thermal Engineering</i> , 2009, 29, 3144-3148.	3.0	20
82	A model to study the effects of different control strategies on space humidity during part-load conditions. <i>Building and Environment</i> , 2008, 43, 2074-2089.	3.0	7
83	A comparative study of H ₂ -air premixed flame in micro combustors with different physical and boundary conditions. <i>Combustion Theory and Modelling</i> , 2008, 12, 325-347.	1.0	35
84	A wireless addressing interface circuitry for microthruster array applications. <i>Aircraft Engineering and Aerospace Technology</i> , 2007, 79, 628-634.	0.8	3
85	Investigation on the ignition of a MEMS solid propellant microthruster before propellant combustion. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 322-332.	1.5	26
86	A comparative study of different control strategies for indoor air humidity. <i>Energy and Buildings</i> , 2007, 39, 537-545.	3.1	16
87	Fabrication, modeling and testing of a thin film Au/Ti microheater. <i>International Journal of Thermal Sciences</i> , 2007, 46, 580-588.	2.6	84
88	An analytical study on the thermal effects of cryosurgery on selective cell destruction. <i>Journal of Biomechanics</i> , 2007, 40, 100-116.	0.9	89
89	Experimental study of micro-thermophotovoltaic systems with different combustor configurations. <i>Energy Conversion and Management</i> , 2007, 48, 1238-1244.	4.4	43
90	Support vector regression model predictive control on a HVAC plant. <i>Control Engineering Practice</i> , 2007, 15, 897-908.	3.2	122

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91	Effect of current-collector structure on performance of passive micro direct methanol fuel cell. Journal of Power Sources, 2007, 164, 549-554.	4.0	73
92	Development of a novel pressure swing adsorption dehydration system for the preservation of dermal tissue. Materials Science and Engineering C, 2007, 27, 313-324.	3.8	0
93	Catalytic Effect of Microcombustion in Microthermophotovoltaic System. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 275-282.	1.4	3
94	Drying of Porcine Dermal Tissue Via Pressure Swing Adsorption. Drying Technology, 2006, 24, 973-982.	1.7	1
95	Performance Prediction of a Novel Solid-Propellant Microthruster. Journal of Propulsion and Power, 2006, 22, 56-63.	1.3	28
96	A MEMS-based solid propellant microthruster with Au/Ti igniter. Sensors and Actuators A: Physical, 2005, 122, 113-123.	2.0	123
97	On the study of the temperature distribution within a human eye subjected to a laser source. International Communications in Heat and Mass Transfer, 2005, 32, 1057-1065.	2.9	41
98	A modular approach to study the performance of a two-stage heat pump system for drying. Applied Thermal Engineering, 2005, 25, 1363-1379.	3.0	48
99	A comparative study between intermittent microwave and infrared drying of bioproducts. International Journal of Food Science and Technology, 2005, 40, 23-39.	1.3	72
100	Characteristics of premixed flame in microcombustors with different diameters. Applied Thermal Engineering, 2005, 25, 271-281.	3.0	16
101	MICROTHERMOPHOTOVOLTAICS POWER SYSTEM FOR PORTABLE MEMS DEVICES. Microscale Thermophysical Engineering, 2005, 9, 85-97.	1.2	45
102	Study of catalytic combustion and its effect on microthermophotovoltaic power generators. Journal Physics D: Applied Physics, 2005, 38, 4252-4255.	1.3	42
103	Development of a low-temperature co-fired ceramic solid propellant microthruster. Journal of Micromechanics and Microengineering, 2005, 15, 944-952.	1.5	64
104	New Hybrid Drying Technologies. , 2005, , 535-551.		13
105	Development of a prototype micro-thermophotovoltaic power generator. Journal Physics D: Applied Physics, 2004, 37, 1017-1020.	1.3	55
106	A prototype microthermophotovoltaic power generator. Applied Physics Letters, 2004, 84, 3864-3866.	1.5	59
107	Predicting the temperature of a premixed flame in a microcombustor. Journal of Applied Physics, 2004, 96, 3524-3530.	1.1	19
108	On the experimental study of a pressure regulatory system for bioproducts dehydration. Journal of Food Engineering, 2004, 62, 151-158.	2.7	19

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109	On the study of an energy-efficient greenhouse for heating, cooling and dehumidification applications. <i>Applied Energy</i> , 2004, 77, 355-373.	5.1	78
110	Performance study of a microturbine system for cogeneration application. <i>Renewable Energy</i> , 2004, 29, 1121-1133.	4.3	79
111	Performance of a single-effect desalination system operating with different tube profiles and materials. <i>Desalination</i> , 2004, 166, 69-78.	4.0	0
112	Thermal environment in a confined space of high-rise building with split air conditioning system. <i>Building and Environment</i> , 2004, 39, 817-823.	3.0	7
113	Design, Fabrication, and Testing of a Prototype Microthermophotovoltaic System. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 851-856.	1.7	16
114	Development of a solid propellant microthruster with chamber and nozzle etched on a wafer surface. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 785-792.	1.5	60
115	Radiant-convective drying of osmotic treated agro-products: effect on drying kinetics and product quality. <i>Food Control</i> , 2004, 15, 145-158.	2.8	45
116	MEMS-Based Solid Propellant Microthruster Design, Simulation, Fabrication, and Testing. <i>Journal of Microelectromechanical Systems</i> , 2004, 13, 165-175.	1.7	48
117	On the use of contact factor parameter to optimize drying operations. <i>Energy Conversion and Management</i> , 2003, 44, 1451-1464.	4.4	2
118	Microscale combustion research for application to micro thermophotovoltaic systems. <i>Energy Conversion and Management</i> , 2003, 44, 2625-2634.	4.4	132
119	Solar-assisted heat-pump dryer and water heater. <i>Applied Energy</i> , 2003, 74, 185-193.	5.1	70
120	Intermittent drying of bioproductsâ€”an overview. <i>Bioresource Technology</i> , 2003, 90, 285-295.	4.8	135
121	Research on micro-thermophotovoltaic power generators. <i>Solar Energy Materials and Solar Cells</i> , 2003, 80, 95-104.	3.0	37
122	Low-cost drying methods for developing countries. <i>Trends in Food Science and Technology</i> , 2003, 14, 519-528.	7.8	182
123	HEAT PUMP DRYING: RECENT DEVELOPMENTS AND FUTURE TRENDS. <i>Drying Technology</i> , 2002, 20, 1579-1610.	1.7	148
124	ON THE STUDY OF TIME-VARYING TEMPERATURE DRYINGâ€™EFFECT ON DRYING KINETICS AND PRODUCT QUALITY. <i>Drying Technology</i> , 2002, 20, 1559-1577.	1.7	62
125	Development of microthermophotovoltaic system. <i>Applied Physics Letters</i> , 2002, 81, 5255-5257.	1.5	103
126	PHâ€™Postharvest Technology. <i>Biosystems Engineering</i> , 2002, 81, 99-111.	1.9	26

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127	Combustion in micro-cylindrical combustors with and without a backward facing step. Applied Thermal Engineering, 2002, 22, 1777-1787.	3.0	204
128	Analytical study of cyclic temperature drying: effect on drying kinetics and product quality. Journal of Food Engineering, 2002, 51, 65-75.	2.7	62
129	EFFECT OF OSMOTIC PRE-TREATMENT AND INFRARED RADIATION ON DRYING RATE AND COLOR CHANGES DURING DRYING OF POTATO AND PINEAPPLE. Drying Technology, 2001, 19, 2193-2207.	1.7	97
130	New hybrid drying technologies for heat sensitive foodstuffs. Trends in Food Science and Technology, 2001, 12, 359-369.	7.8	199
131	Batch drying of banana pieces " effect of stepwise change in drying air temperature on drying kinetics and product colour. Food Research International, 2001, 34, 721-731.	2.9	163
132	CONVECTIVE DRYING OF AGRICULTURAL PRODUCTS. EFFECT OF CONTINUOUS AND STEPWISE CHANGE IN DRYING AIR TEMPERATURE. Drying Technology, 2001, 19, 1949-1960.	1.7	83
133	Maximum mass flow ratio due to secondary flow choking in an ejector refrigeration system. International Journal of Refrigeration, 2001, 24, 486-499.	1.8	50
134	The performance of a solar assisted heat pump water heating system. Applied Thermal Engineering, 2001, 21, 1049-1065.	3.0	150
135	An optimisation framework for drying of heat-sensitive products. Applied Thermal Engineering, 2001, 21, 1779-1798.	3.0	27
136	On the steady-state modelling of a two-stage evaporator system. International Journal of Energy Research, 2001, 25, 859-880.	2.2	10
137	A design day for building load and energy estimation. Building and Environment, 1999, 34, 469-477.	3.0	20
138	Effect of rain on the heat gain through building walls in tropical climates. Building and Environment, 1997, 32, 465-477.	3.0	11
139	Drying of Porous Materials in the Presence of Solar Radiation. Drying Technology, 1996, 14, 2339-2369.	1.7	3
140	Measurement of the heat transfer coefficient for walls. Building and Environment, 1996, 31, 399-407.	3.0	68
141	Determining the heat flow through building walls under simulated actual weather patterns. International Journal of Energy Research, 1995, 19, 243-251.	2.2	1
142	Performance of a heat-pump assisted dryer. International Journal of Energy Research, 1994, 18, 605-622.	2.2	10
143	Efficient energy performance of large commercial buildings in tropical climates. Energy Conversion and Management, 1994, 35, 751-763.	4.4	11
144	Development of an energy-estimating equation for large commercial buildings. International Journal of Energy Research, 1993, 17, 759-773.	2.2	12

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145	Effects of multi-parameter changes on energy use of large buildings. International Journal of Energy Research, 1993, 17, 885-903.	2.2	13
146	Heat Flow through Walls under Transient Rain Conditions. Journal of Thermal Insulation and Building Envelopes, 1993, 17, 118-141.	0.1	15
147	Energy audit of a steel mill. Energy, 1991, 16, 1021-1029.	4.5	7
148	A simplified overall thermal transfer value equation for building envelopes. Energy, 1988, 13, 657-670.	4.5	34
149	Energy analysis applied to food processing. Energy, 1986, 11, 887-892.	4.5	8
150	A national strategy for energy management in Singapore. Energy, 1985, 10, 1017-1022.	4.5	5
151	A low temperature co-fired ceramic solid propellant microthruster for micropropulsion applications. , 0, , .		0
152	Micro/Nano Functional Manufacturing: From Microthruster to Nano Energetic Material to Micro/Nano Initiator. Key Engineering Materials, 0, 426-427, 240-244.	0.4	2