Greg F Naterer

List of Publications by Citations

330 papers	7,265 citations	43 h-index	69 g-index
366 ext. papers	8,531 ext. citations	4.7 avg, IF	6.49 L-index

#	Paper	IF	Citations
330	Review of photocatalytic water-splitting methods for sustainable hydrogen production. *International Journal of Energy Research*, **2016**, 40, 1449-1473	4.5	297
329	Life cycle assessment of various hydrogen production methods. *International Journal of Hydrogen Energy*, **2012**, 37, 2071-2080	6.7	251
328	Heat transfer in phase change materials for thermal management of electric vehicle battery modules. *International Journal of Heat and Mass Transfer*, **2010**, 53, 5176-5182	4.9	200
327	Thermodynamic modeling of a gas turbine cycle combined with a solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2008**, 33, 5811-5822	6.7	191
326	Heat transfer and thermal management with PCMs in a Li-ion battery cell for electric vehicles. *International Journal of Heat and Mass Transfer*, **2014**, 72, 690-703	4.9	170
325	Exergy analysis of a thermal power plant with measured boiler and turbine losses. *Applied Thermal Engineering*, **2010**, 30, 970-976	5.8	163
324	Recent Canadian advances in nuclear-based hydrogen production and the thermochemical Cu□Cl cycle. *International Journal of Hydrogen Energy*, **2009**, 34, 2901-2917	6.7	154
323	Energy and exergy efficiency comparison of horizontal and vertical axis wind turbines. *Renewable Energy*, **2010**, 35, 2102-2113	8.1	151
322	Modeling of passive thermal management for electric vehicle battery packs with PCM between cells. *Applied Thermal Engineering*, **2014**, 73, 307-316	5.8	150
321	Comparison of thermochemical, electrolytic, photoelectrolytic and photochemical solar-to-hydrogen production technologies. *International Journal of Hydrogen Energy*, **2012**, 37, 16287-16301	6.7	148
320	Exergy analysis of hydrogen production from biomass gasification. *International Journal of Hydrogen Energy*, **2010**, 35, 4981-4990	6.7	133
319	Canada□s program on nuclear hydrogen production and the thermochemical Cu□Cl cycle. *International Journal of Hydrogen Energy*, **2010**, 35, 10905-10926	6.7	95
318	Performance evaluation of direct methanol fuel cells for portable applications. *Journal of Power Sources*, **2009**, 187, 509-516	8.9	94
317	Energy and exergy analyses of an integrated SOFC and coal gasification system. *International Journal of Hydrogen Energy*, **2012**, 37, 1689-1697	6.7	91
316	Thermochemical hydrogen production with a copper□chlorine cycle. I: oxygen release from copper oxychloride decomposition. *International Journal of Hydrogen Energy*, **2008**, 33, 5439-5450	6.7	86
315	Thermodynamic analysis of a combined gas turbine power system with a solid oxide fuel cell through exergy. *Thermochimica Acta*, **2008**, 480, 1-9	2.9	82
314	Cost analysis of a thermochemical Cu□Cl pilot plant for nuclear-based hydrogen production. *International Journal of Hydrogen Energy*, **2008**, 33, 6006-6020	6.7	79

313	Comparison of sulfur–iodine and copper–chlorine thermochemical hydrogen production cycles. *International Journal of Hydrogen Energy*, **2010**, 35, 4820-4830	6.7	70
312	Heat transfer and thermal management of electric vehicle batteries with phase change materials. *Heat and Mass Transfer*, **2011**, 47, 777-788	2.2	67
311	Synergistic roles of off-peak electrolysis and thermochemical production of hydrogen from nuclear energy in Canada. *International Journal of Hydrogen Energy*, **2008**, 33, 6849-6857	6.7	64
310	Solar energy based integrated system for power generation, refrigeration and desalination. *Applied Thermal Engineering*, **2017**, 121, 1059-1069	5.8	63
309	Comparison of different copper–chlorine thermochemical cycles for hydrogen production. *International Journal of Hydrogen Energy*, **2009**, 34, 3267-3276	6.7	62
308	Performance assessment of thermal management systems for electric and hybrid electric vehicles. *International Journal of Energy Research*, **2013**, 37, 1-12	4.5	60
307	Thermodynamic analysis of waste heat recovery for cooling systems in hybrid and electric vehicles. *Energy*, **2012**, 46, 109-116	7.9	60
306	Exergy analysis of a TMS (thermal management system) for range-extended EVs (electric vehicles). *Energy*, **2012**, 46, 117-125	7.9	58
305	Effects of stator vanes on power coefficients of a zephyr vertical axis wind turbine. *Renewable Energy*, **2010**, 35, 1043-1051	8.1	58
304	Thermodynamic analysis of filling compressed gaseous hydrogen storage tanks. *International Journal of Hydrogen Energy*, **2012**, 37, 5063-5071	6.7	57
303	Clean hydrogen production with the Cu–Cl cycle – Progress of international consortium, I: Experimental unit operations. *International Journal of Hydrogen Energy*, **2011**, 36, 15472-15485	6.7	57
302	Performance investigation of an integrated wind energy system for co-generation of power and hydrogen. *International Journal of Hydrogen Energy*, **2018**, 43, 9153-9164	6.7	56
301	Greenhouse gas emissions assessment of hydrogen and kerosene-fueled aircraft propulsion. *International Journal of Hydrogen Energy*, **2009**, 34, 1363-1369	6.7	55
300	Thermophysical properties of copper compounds in copper–chlorine thermochemical water splitting cycles. *International Journal of Hydrogen Energy*, **2010**, 35, 4839-4852	6.7	54
299	Progress of international hydrogen production network for the thermochemical Cu–Cl cycle. *International Journal of Hydrogen Energy*, **2013**, 38, 740-759	6.7	51
298	Entropy and the Second Law Fluid Flow and Heat Transfer Simulation. *Journal of Thermophysics and Heat Transfer*, **2003**, 17, 360-371	1.3	51
297	Coupling of copper–chloride hybrid thermochemical water splitting cycle with a desalination plant for hydrogen production from nuclear energy. *International Journal of Hydrogen Energy*, **2010**, 35, 1560-1574	6.7	49
296	Comparative performance analysis of PEM and solid oxide steam electrolysers. *International Journal of Hydrogen Energy*, **2010**, 35, 10842-10850	6.7	49

295	Exergy analysis and optimization of a thermal management system with phase change material for hybrid electric vehicles. *Applied Thermal Engineering*, **2014**, 64, 471-482	5.8	48
294	Performance evaluation of a geothermal based integrated system for power, hydrogen and heat generation. *International Journal of Hydrogen Energy*, **2013**, 38, 14505-14511	6.7	47
293	Progress in thermochemical hydrogen production with the copper–chlorine cycle. *International Journal of Hydrogen Energy*, **2015**, 40, 6283-6295	6.7	46
292	Clean hydrogen production with the Cu–Cl cycle – Progress of international consortium, II: Simulations, thermochemical data and materials. *International Journal of Hydrogen Energy*, **2011**, 36, 15486-15501	6.7	45
291	Optimum temperatures in a shell and tube condenser with respect to exergy. *International Journal of Heat and Mass Transfer*, **2008**, 51, 2462-2470	4.9	45
290	Modeling of Entropy Production in Turbulent Flows. *Journal of Fluids Engineering, Transactions of the ASME*, **2004**, 126, 893-899	2.1	43
289	Heat Transfer in Single and Multiphase Systems		43
288	Development and assessment of a solar, wind and hydrogen hybrid trigeneration system. *International Journal of Hydrogen Energy*, **2018**, 43, 23148-23160	6.7	43
287	Sea spray icing phenomena on marine vessels and offshore structures: Review and formulation. *Ocean Engineering*, **2017**, 132, 25-39	3.9	42
286	Nuclear-based hydrogen production with a thermochemical copper–chlorine cycle and supercritical water reactor: equipment scale-up and process simulation. *International Journal of Energy Research*, **2012**, 36, 456-465	4.5	40
285	Marine icing phenomena on vessels and offshore structures: Prediction and analysis. *Ocean Engineering*, **2017**, 143, 1-23	3.9	39
284	Equilibrium conversion in Cu–Cl cycle multiphase processes of hydrogen production. *Thermochimica Acta*, **2009**, 496, 117-123	2.9	39
283	Analysis and optimization of hybrid electric vehicle thermal management systems. *Journal of Power Sources*, **2014**, 247, 643-654	8.9	38
282	Exergoenvironmental analysis of hybrid electric vehicle thermal management systems. *Journal of Cleaner Production*, **2014**, 67, 187-196	10.3	37
281	Multiphase reactor scale-up for Cu–Cl thermochemical hydrogen production. *International Journal of Hydrogen Energy*, **2008**, 33, 6934-6946	6.7	37
280	Analysis of a photochemical water splitting reactor with supramolecular catalysts and a proton exchange membrane. *International Journal of Hydrogen Energy*, **2011**, 36, 11273-11281	6.7	35
279	Rail transportation by hydrogen vs. electrification – Case study for Ontario Canada, I: Propulsion and storage. *International Journal of Hydrogen Energy*, **2010**, 35, 6084-6096	6.7	35
278	Comparative assessment of greenhouse gas mitigation of hydrogen passenger trains. *International Journal of Hydrogen Energy*, **2008**, 33, 1788-1796	6.7	34

277	Thermal and electrochemical performance assessment of a high temperature PEM electrolyzer. *Energy*, **2018**, 152, 237-246	7.9	33
276	Energy and exergy analyses of electrolytic hydrogen production with molybdenum-oxo catalysts. *International Journal of Hydrogen Energy*, **2012**, 37, 7365-7372	6.7	33
275	Rail transportation by hydrogen vs. electrification Case study for Ontario, Canada, II: Energy supply and distribution. *International Journal of Hydrogen Energy*, **2010**, 35, 6097-6107	6.7	32
274	New trigeneration system integrated with desalination and industrial waste heat recovery for hydrogen production. *Applied Thermal Engineering*, **2018**, 142, 767-778	5.8	32
273	Thermodynamic assessment of a lab-scale experimental copper-chlorine cycle for sustainable hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 17595-17610	6.7	31
272	Comparison of molten salt heat recovery options in the CuCl cycle of hydrogen production. *International Journal of Hydrogen Energy*, **2011**, 36, 11328-11337	6.7	31
271	Thermal design of a solar hydrogen plant with a copper chlorine cycle and molten salt energy storage. *International Journal of Hydrogen Energy*, **2011**, 36, 11258-11272	6.7	31
270	Solar thermochemical plant analysis for hydrogen production with the copper chlorine cycle. *International Journal of Hydrogen Energy*, **2010**, 35, 8511-8520	6.7	31
269	Experimental uncertainty of measured entropy production with pulsed laser PIV and planar laser induced fluorescence. *International Journal of Heat and Mass Transfer*, **2005**, 48, 1450-1461	4.9	31
268	Hybrid photocatalytic water splitting for an expanded range of the solar spectrum with cadmium sulfide and zinc sulfide catalysts. *Applied Catalysis A: General*, **2013**, 455, 25-31	5.1	30
267	Thermochemical hydrogen production with a copper chlorine cycle, II: Flashing and drying of aqueous cupric chloride. *International Journal of Hydrogen Energy*, **2008**, 33, 5451-5459	6.7	30
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265	Droplet trajectories of wave-impact sea spray on a marine vessel. *Cold Regions Science and Technology*, **2016**, 127, 1-9	3.8	29
264	Unified Approach to Exergy Efficiency, Environmental Impact and Sustainable Development for Standard Thermodynamic Cycles. *International Journal of Green Energy*, **2008**, 5, 105-119	3	29
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261	Byproducts and reaction pathways for integration of the CuCl cycle of hydrogen production. *International Journal of Hydrogen Energy*, **2011**, 36, 13414-13424	6.7	27
260	Industrial heat recovery from a steel furnace for the cogeneration of electricity and hydrogen with the copper-chlorine cycle. *Energy Conversion and Management*, **2018**, 171, 384-397	10.6	26

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258	Diffusion of gaseous products through a particle surface layer in a fluidized bed reactor. *International Journal of Heat and Mass Transfer*, **2010**, 53, 2449-2458	4.9	26
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255	Experimental correlation of forced convection heat transfer from a NACA airfoil. *Experimental Thermal and Fluid Science*, **2007**, 31, 1073-1082	3	26
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252	Measured effects of light intensity and catalyst concentration on photocatalytic hydrogen and oxygen production with zinc sulfide suspensions. *International Journal of Hydrogen Energy*, **2013**, 38, 9158-9168	6.7	25
251	Hydrogen Production from Nuclear Energy **2013**,		25
250	Integrated gasification and Cu–Cl cycle for trigeneration of hydrogen, steam and electricity. *International Journal of Hydrogen Energy*, **2011**, 36, 2845-2854	6.7	25
249	Advances in unit operations and materials for the Cu Cl cycle of hydrogen production. *International Journal of Hydrogen Energy*, **2017**, 42, 15708-15723	6.7	24
248	Integrated fossil fuel and solar thermal systems for hydrogen production and CO2 mitigation. *International Journal of Hydrogen Energy*, **2014**, 39, 14227-14233	6.7	24
247	Photo-electro-chemical chlorination of cuprous chloride with hydrochloric acid for hydrogen production. *International Journal of Hydrogen Energy*, **2012**, 37, 9529-9536	6.7	24
246	Noise Pollution Prevention in Wind Turbines: Status and Recent Advances. *Sustainability*, **2012**, 4, 1104-1167	3.6	24
245	Preformance analysis of a water splitting reactor with hybrid photochemical conversion of solar energy. *International Journal of Hydrogen Energy*, **2012**, 37, 7464-7472	6.7	23
244	Water splitting with a dual photo-electrochemical cell and hybrid catalysis for enhanced solar energy utilization. *International Journal of Energy Research*, **2013**, 37, 1175-1186	4.5	23
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239	Exergy and cost analyses of waste heat recovery from furnace cement slag for clean hydrogen production. *Energy*, **2019**, 172, 1243-1253	7.9	22
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235	Optimal Design Methods for Hybrid Renewable Energy Systems. *International Journal of Green Energy*, **2015**, 12, 148-159	3	21
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231	Surface micro-grooves for near-wall exergy and flow control: application to aircraft intake de-icing. *Journal of Micromechanics and Microengineering*, **2005**, 15, 501-513	2	20
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228	Efficiency assessment of a photo electrochemical chloralkali process for hydrogen and sodium hydroxide production. *International Journal of Hydrogen Energy*, **2014**, 39, 1941-1956	6.7	19
227	Effects of atomization conditions and flow rates on spray drying for cupric chloride particle formation. *International Journal of Hydrogen Energy*, **2011**, 36, 11353-11359	6.7	19
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225	New Cu-Cl Thermochemical Cycle for Hydrogen Production with Reduced Excess Steam Requirements. *International Journal of Green Energy*, **2009**, 6, 616-626	3	19
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217	Fuel cell entropy production with ohmic heating and diffusive polarization. *International Journal of Heat and Mass Transfer*, **2006**, 49, 2673-2683	4.9	18
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215	Multiphase flow with impinging droplets and airstream interaction at a moving gas/solid interface. *International Journal of Multiphase Flow*, **2002**, 28, 451-477	3.6	18
214	Role of hydrogen storage in renewable energy management for Ontario. *International Journal of Hydrogen Energy*, **2012**, 37, 7343-7354	6.7	17
213	Utilizing hydrogen energy to reduce greenhouse gas emissions in Canada's residential sector. *International Journal of Hydrogen Energy*, **2009**, 34, 1631-1637	6.7	17
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207	Convective heat transfer and solid conversion of reacting particles in a copper(II) chloride fluidized bed. *Chemical Engineering Science*, **2011**, 66, 460-468	4.4	16
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202	EULERIAN THREE-PHASE FORMULATION WITH COUPLED DROPLET FLOW AND MULTIMODE HEAT TRANSFER. *Numerical Heat Transfer, Part B: Fundamentals*, **2003**, 43, 331-352	1.3	15
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200	Multigeneration system exergy analysis and thermal management of an industrial glassmaking process linked with a Cu□l cycle for hydrogen production. *International Journal of Hydrogen Energy* , **2019**, 44, 9791-9801	6.7	14
199	Kinetics study of the copper/hydrochloric acid reaction for thermochemical hydrogen production. *International Journal of Hydrogen Energy*, **2010**, 35, 4853-4860	6.7	14
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194	Azeotropic pressure swing distillation of hydrochloric-water for hydrogen production in the Cu Cl cycle: Thermodynamic and design methods. *International Journal of Hydrogen Energy*, **2019**, 44, 7969-7982	6.7	13
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177	Molecular charge transfer and quantum efficiency analyses of a photochemical reactor for hydrogen production. *International Journal of Hydrogen Energy*, **2012**, 37, 9537-9549	6.7	11
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