

Affordable and Clean Energy	Affordable and Clean Energy	Affordable and Clean Energy	Affordable and Clean Energy
SDG 7	SDG 7	SDG 7	SDG 7
polymer solar cells (piscs)	photocatalytic hydrogen evolution	parabolic trough collector	integration of renewable energy
lithium-7sulfur	polymer electrolyte fuel cells	n719	biofuel cells
lithium ion batteries (liba)	vehicle-to-grid	solid photovoltaic (pv) system	hybrid renewable energy
bulk heterojunction solar cells	wind power penetration	building integrated photovoltaic	parallel hybrid
sodium-ion batteries (siba)	intermediate temperature solid oxide fuel cells	fuel cell operation	high penetration of renewable energy
photocatalytic h2 evolution	fuel cell hydrogen	direct methanol fuel cells	wind power generator
bulk heterojunction solar cell	proton exchange membrane fuel cell (pemfc)	perovskite photovoltaic	trough collector
organic solar cells (oscs)	renewable energy consumption	renewable energy integration	photovoltaic efficiency
short-circuit current density (sc)	lithium-ion battery	perovskite trough collector	enhanced photothermal system
li-soc	lithium-ion battery	n719	electric vehicle charging station
sodium-ion battery	photovoltaic (pv) generation	solar photovoltaic (pv) system	lithium metal anode
lithium-ion battery anode	li stack	lithium-sulfur batteries	enhanced charging condition
electrocatalytic hydrogen evolution	microbial fuel cell (mfc)	solar-to-hydrogen	pb7-in
membrane electrode assembly (mea)	sodium ion battery	polymer donor	methanol fuel cells
anode-supported	solar cell device	lithium-ion battery	fuel cell cathode
lithium polysulfides	photovoltaic parameter	renewable energy (re)	biomass pyrolysis
lithium polysulfides	distributed photovoltaic	li-ion batteries	wind power forecasting
dye-sensitized solar cells	oscs solar cells	hydrogen evolution reactions	pv panels
hydrogen storage properties	anode lithium	plasma facing component	floating wind
na-ion batteries	li-soc	pv energy	biofuels
photocatalytic h2 production	initial coulombic efficiency	hydro grid	pv power plant
proton exchange membrane fuel cells (pemfcs)	short circuit current density (sc)	direct methanol fuel cells (dmfcs)	plasma facing components
lithium-7sulfur batteries	renewable energy power	biopar plates	the maximum power point tracking (mpp)
planar perovskite solar cell	silicon heterojunction solar cell	bulk heterojunction (bhj)	dye sensitized solar cells (dssc)
sodium ion batteries	dmfc	solid oxide fuel cells (sofc)	solid oxide fuel cells (sofc)
anode-support	photovoltaic (pv) power	wind power prediction	sulfur loading
intermediate temperature solid oxide fuel cell	sofc anode	c-si solar cells	pv battery
lithium-sulfur battery	organic photovoltaic (opv)	hydrothermal liquefaction	electrochemical hydrogen evolution
high voltage direct current (hvdc)	plug-in electric vehicle	silicon heterojunction solar cells	wind turbines (wts)
photovoltaic performance	zero energy building	large-scale wind power	enhanced geothermal
hybrid electric vehicle (hev)	photovoltaic parameters	distributed renewable energy	renewable energy application
sulfur cathode	hybrid photovoltaic	photovoltaic generation	polymer electrolyte fuel cell (pefc)
intermediate temperature solid oxide	fuel cell model	maximum power point (mpp)	lithium sulfur batteries
dye-sensitized solar cells (dssc)	mechanical steam reforming	photocatalytic hydrogen generation	reversible capacitors
lithium-sulfur (li-s) batteries	vso-hvdc	concentrating solar power	fuel cell membrane
li-s batteries	hydrogen storage alloy	polymer electrolyte membrane fuel cell (pemfc)	ground heat exchanger
pb71m	vehicle to grid	fuel cell performance	generator (gen)
organic photovoltaic device	edge localized mode	photovoltaic cells	zinc-air batteries
photocatalytic hydrogen production	renewable energy sources (res)	plug-in hybrid electric vehicles (phevs)	high-performance anode material
fuel cell (fc)	wind energy conversion system (wecs)	methanol permeability	plasma facing components
dye-sensitized solar cell (dssc)	lithium storage performance	dark fermentation	stable perovskite solar cells
oscs solar cell	photovoltaic thermal	high open-circuit voltage	anode catalyst
membrane electrode assembly	lithium-ion battery (liba)	zero energy buildings	intermittent of renewable energy sources
photovoltaic (pv) panel	wind power integration	photovoltaic/thermal	limitation/diffusion
direct methanol fuel cell (dmfc)	intermittent renewable energy	fill factor (ff)	perovskite
confined	proton exchange membrane (pem) fuel cell	fuel cell performance	chemical hydrogen storage
planar perovskite solar cells	open circuit voltage (ocv)	hydrogen storage alloys	biofuel blends
energyplus	asset upgrade	photovoltaic plant	polymer electrolyte fuel cell
wind turbine (wt)	cathode catalyst layer	hybrid renewable energy system	lithium ion battery
fullerene acceptors	dye sensitized solar cells	green roof	electric buses
generation of renewable energy	non-fullerene	permanent magnet synchronous generator (pmsg)	h-2a
biorefinery	anode support	biofuel synthesis	quantum dot solar cell
polymer electrolyte membrane fuel cells	new wind turbine	photovoltaic (pv) cell	sofc cathode
zn-air	pv power generation	integration of renewable energy	sofc cathode
metal-air batteries	concentrated solar power (csp)	biofuel cells	polymer electrolyte membrane (pem)
air-air batteries	fullerene acceptor	hybrid renewable energy	renewable energy sources (res)
organic photovoltaic devices	high-performance anode	parallel hybrid	utilization of renewable energy
electrolyte membrane fuel cells	short circuit current density	high penetration of renewable energy	open-circuit voltage (ocv)
zn-air batteries	high sulfur loading	wind power generator	air-connected photovoltaic (pv)
li72s batteries	li ion batteries	trough collector	series hybrid
hydrogen evolution rate	integrated photovoltaic	photovoltaic efficiency	non-fullerene acceptors
stable perovskite solar cells	hybrid powertrain	enhanced photothermal system	air-connected photovoltaic (pv)
hydrogen storage capacity	air-connected photovoltaic	electric vehicle charging station	high voltage direct current
photovoltaic (pv) modules	shunt effect	lithium metal anode	proton exchange membrane (pem)
hybrid electric vehicles (hevs)	solar fuel	partial shading condition	perovskite
wind power output	photovoltaic (pv) array	pb7-in	intermediate-temperature solid oxide fuel cell
photovoltaic inverter	hydrogen storage materials	methanol fuel cells	fermentative hydrogen
sulfur host	high-voltage direct current	fuel cell cathode	offshore wind power
membrane electrode assemblies	sofc stack	biomass pyrolysis	plug-in hybrid electric vehicle (phev)
vehicle-to-grid (v2g)	li-ion batteries (liba)	wind power forecasting	doubly fed induction generator (dfic)
phve	biorefinery crop	pv panels	organic photovoltaic
biofuel yield	wind farm	floating wind	hydrogen storage performance
solar cell devices	non-fullerene acceptor	biofuels	photovoltaic power plant
gas diffusion layer (gd)	battery anodes	pv power plant	solid turbine
wave energy converter (wec)	variable speed wind turbine	plasma facing components	partial shading conditions
catalytic h2 production	sulfur battery	the maximum power point tracking (mpp)	charging infrastructure
hybrid solar cell	hydrogen storage	dye sensitized solar cells (dssc)	stimulated reservoir volume
photovoltaic (pv) module	wind power forecast	photocatalytic hydrogen generation	polymer electrolyte membrane fuel cell
floating offshore wind turbine	organic photovoltaic cell	concentrating solar power	high voltage dc
lithium ion batteries	electromobility	polymer electrolyte membrane fuel cell (pemfc)	bonefide heat exchanger
li-s battery	the maximum power point tracking	organic photovoltaic cells	high oil reservoir
mic performance	monopile	pefcs	multi-junction solar cell
floating offshore wind	plug-in electric vehicles (pevs)	plug-in hybrid electric vehicles (phevs)	inorganic perovskite solar cell
wave energy converters	hydrogen evolution activity	methanol permeability	stability of perovskite solar cells
floating wind turbine	catalytic hydrogen production	dark fermentation	wind turbine system
catalytic hydrogen evolution reaction	photovoltaic (pv) panels	high open-circuit voltage	electric vehicle levit charging
lithium sulfur	high-lev cell	zero energy buildings	photovoltaic (pv) systems
hybrid solar cells	plug-in hybrid electric vehicle	photovoltaic/thermal	solar cell efficiency
wind turbine model	nonfullerene acceptor	fill factor (ff)	pyrolysis of biomass
bulk-heterojunction	wind power generation system	fuel cell performance	ground source heat pump
plug-in electric vehicles	concentrated solar power	hydrogen storage alloys	fuel cell applications
zn-air battery	doubly-fed induction generator (dfic)	photovoltaic plant	energy efficiency optimization
oscs solar cell	building integrated photovoltaic	hybrid renewable energy system	ground heat exchanger
solid oxide fuel cells (sofcs)	fuel cell operation	green roofs	lithium metal batteries
microbial fuel cells (mfcs)	direct methanol fuel cells	permanent magnet synchronous generator (pmsg)	ethanol permeability
pb7	perovskite photovoltaic	biofuel synthesis	micro-hvdc
fuel cell hybrid	renewable energy integration	photovoltaic (pv) cell	hybrid renewable

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renewable energy applications	air cathode	qbls2 (icqa)	wave energy converters (wecs)
hydrogen storage material	pv device	high voltage direct current (hvdc) transmission	power forecasting
biofuel plate	desalinated water	wind resources	net present cost
offshore wind farms	perovskite absorber	bioethanol	current turbine
am1.5g	wind generators	efficiency of photovoltaic	solar thermal energy
organic photovoltaics (opvs)	concentrating solar power (csp)	cuvo qbls2	grid-side converter
thermophotovoltaic	inorganic perovskite solar cells	pv arrays	parallel hybrid electric vehicle
photocatalytic h ₂	ground source heat	concentrator photovoltaic	photovoltaic characteristics
high-voltage direct current (hvdc)	li-ion battery anode	photovoltaic (pv) cells	large-scale wind farm
photovoltaic (pv) inverter	wind turbine power	pv-battery	photovoltaic technologies
catalytic hydrogen generation	test blankets	photovoltaic inverters	uncertainty of wind power
photovoltaic materials	lithium-ion battery pack	power conversion efficiencies	flexible solar cell
gas diffusion layer	energy efficiency measures	hydrogen evolution performance	rotor-side converter
li dendrite	electric bus	photovoltaic-thermal	sodium-ion batteries
solid-state dye-sensitized solar cell	solar photovoltaic (pv)	hydro systems	polymer electrolyte membrane fuel cells (pemfcs)
odss	photovoltaic system	h ₂ systems	thin-film solar
grid-connected photovoltaic system	lithiation process	methanol crossover	w7x
light resonator	desert and bio-desert	quantum dot sensitized solar cell	irreversible capacity
photovoltaic material	pv devices	air-cathode	lithium ion diffusion
wendelstein 7-x	photoactive layer	seal layer	renewable energy conversion
inverted perovskite solar cell	bio-ethanol	mppt method	photovoltaic installation
pv charger	counter electrode (ce)	renewable energy generation	efficiency of solar cells
thin-film solar cells	battery anode	bioenergy crops	bulk-heterojunction solar cell
data	renewable energy storage	incremental conductance	fuel cell vehicles
solar power generation	proton-exchange membrane fuel cell	photovoltaic conversion efficiency	is solar cells
photovoltaic power generation	permc system	thin-film solar cell	short-circuit current density
artificial photosynthesis	solid electrolyte interphase (sei)	metal-air	photovoltaic systems
lithium-ion cell	lithium-ion cells	low	charging load
solar thermal collector	na-ion battery	photovoltaic characteristic	inverted polymer solar cells
microbial electrolysis cell	primary energy saving	heterojunction solar cells	light oil reservoirs
dye sensitized solar cell	shale reservoirs	microbial electrolysis	inverted space
lithium-ion battery anodes	polymer electrolyte fuel cells (pefcs)	turbine tower	multi-terminal hvdc
silicon anode	electrocatalytic hydrogen evolution reaction	multi-junction solar cells	wind power
offshore wind turbines	solid electrolyte interphase	li-ion battery	photovoltaic conversion
plasma-facile component	inverted perovskite solar cells	pv cells	hybrid-electric
pdh ₂	wave energy converter	turbine walk	bioethanol combustion
direct ethanol fuel cell	green roof	qbls2 solar cells	solar hydrogen production
shale gas reservoirs	cell performances	sulfur cathodes	tubular solid oxide fuel cell
polymer electrolyte membrane (pem) fuel cell	fermentation hydrogen production	biofuel	photovoltaic plants
ev charging station	wind turbine gear	observe (obo)	high cell application
sofc system	biofuel feedstock	bio-fuel	wind turbine tower
wind power fluctuation	oxygen exchange membrane fuel cells	maximum power point tracker	formic acid fuel cell
oxide solar cell	thermal collectors	theoretical specific capacity	lithium-ion batteries (lib)
maximum power point tracking (mppt) algorithm	fuel cell test	am 1.5g	quality reservoir
light reservoirs	energy efficiency improvement	iodination	photovoltaic cells
levelized cost of energy	solar cell performance	floating offshore wind turbines	open lithium-ion batteries
national renewable energy laboratory	energy efficiency measure	reversible hydrogen storage	high-voltage dc
air battery	wind power plants	renewable energy development	grid-side converter
fuel cell anode	inverted perovskite	doubly-fed induction generator	polymer solar cell
renewable energy laboratory	artificial shading	e-fuel cell	wind resource
sodium storage	crystalline silicon solar cells	photovoltaic si	li-ion cell
area specific resistance	wind power system	affordable and clean energy	oscillating water column (owc)
biop	dye-sensitized solar cells (dsscs)	photovoltaic	high ice
integrated photovoltaics	bioethanol blend	am1.5	photovoltaic modules
perurb and observ	solid oxide fuel cell (sofc)	concentrated solar power plant	floating wind turbines
lithium ion battery	v2g	ecodesign	fuel cell electric vehicle
lithium dendrite	perovskite solar cells (pscs)	biomass fuels	electric vehicle charging
mpcc algorithm	hybrid perovskite solar cell	anion exchange membrane fuel cell	hydro cable
ethanol fuel cells	internal reforming	photovoltaics	photovoltaic power generation system
lithiopl cathode	oxide solar cells	proton-exchange membrane	solar tracking
solar cell applications	test pyrolysis	hybrid perovskite solar cells	pv generation
li metal anode	blanket module	wind turbine control	parasitic trough
polar plates	li-ion battery	cu/vo qbls2	solid electrolyte interphase
photovoltaic grid	test blanket module	oscillating water column	building-integrated photovoltaic
maximum power point tracking (mppt) control	pcd1tm	lithium-sulfur	electromobility shift assay
vic-hvdc system	viral reservoir	onshore wind	en 14214
renewable energy penetration	ethanol crossover	hybrid propulsion	solid-state lithium batteries
photovoltaic generator	hvdc transmission system	cu/in qbls2 solar cell	multijunction solar cell
variable renewable energy	photovoltaic power plants	bulk heterojunction organic solar cell	improve energy efficiency
zinc-air battery	photovoltaic panels	sodium ion batteries (sib)	hybrid propulsion
pem fuel cells	mppt control	short-term wind power	cu/in qbls2 solar cell
photovoltaic (pv) power generation	solar power plants	high reversible capacity	bulk heterojunction organic solar cell
thermal collector	lip speed ratio	h ₂	sodium ion batteries (sib)
photovoltaics (pv)	lithium metal anodes	unconventional reservoirs	short-term wind power
hydrogen storage system	plasma-facile components	clean and renewable energy	high reversible capacity
fuel cell catalyst	hydrate reservoir	crystalline silicon solar cell	but
non-renewable energy	high sandstone reservoir	pv plants	unconventional reservoirs
pv output	high power conversion efficiency	inverted polymer solar cell	clean and renewable energy
li anode	edge localized modes	wind turbine control	crystalline silicon solar cell
zinc-air	polymer solar cells	fuel cell application	pv plants
solar photovoltaic system	rechargeable lithium-ion batteries	ev charging	solid-state dye-sensitized solar cells
renewable energy production	offshore wind energy	bi-functional electrocatalysts	wind turbine control
thermal liquefaction	is anode	renewable energy resources	wind turbine blades
anode supported	solar desalination	dye-sensitized solar cells (dssc)	fuel cell application
bioethanol fuels	fuel cell stack	air-cathode	lithium ion battery anode
bioenergy production	clean energy source	na-ion	ev charging
wind penetration	cathode catalysts	improving energy efficiency	bi-functional electrocatalysts
lithium-ion (li-ion)	lithium ion phosphate	wind energy generation	alkaline fuel cell
pyrolysis oil	grid connected photovoltaic	high power conversion	shale gas reservoir
wave energy conversion	intermediate-temperature solid oxide fuel cells	photovoltaic (pv) energy	dye-sensitized solar cells (dssc)
gas diffusion layers	marine renewable energy	iodics	solid photovoltaics
catalytic hydrogen evolution	her electrocatalyst	quantum dot solar cells	na-ion
			improving energy efficiency
			wind energy generation
			high power conversion

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photovoltaic (pv) energy	iso 26262	high performance anode	membrane-electrode
adbcns	thin film photovoltaic	energy biomass	hybrid electric vehicles (hev)
quantum dot solar cells	petrus and observe (pa&o)	capacity decay	lithium-metal
wave energy converters (wec)	all-polymer solar cell	generator (dfa)	offshore wind farm
power forecasting	solar thermal collectors	cellulosic ethanol	solid-oxide fuel cell
net present cost	pv system	uncoversion reservoir	bulk heterojunction organic solar cells
current turbine	hub height	proton exchange membrane (pem) fuel cells	doubly fed induction generators
solar thermal energy	large-scale renewable energy	bio diesel production process	li-co2
grid side converter	annual energy production	donor materials	h2 evolution
parallel hybrid electric vehicle	short-circuit photocurrent density	high open circuit voltage	full cells
photovoltaic characteristics	sustainable energy source	poly sulfide shuttle	permanent magnet synchronous generator
large-scale wind farm	access to electricity	short rotation coppice	solar tracker
photovoltaic technologies	cuin.galss2 (cuag)	lithium storage properties	green buildings
uncertainty of wind power	high energy efficiency	net zero energy	solar module
flexible solar cell	pv silen	photovoltaic properties	monopiles
color side converter	membrane electrode assemblies (mea)	initial discharge capacity	18500
sodium-ion batteries	lfe604 battery	dflg wind turbine	pv generation
polymer electrolyte membrane fuel cells (pemfc)	phenyl-c81-butylric acid methyl ester	parabolic trough solar collector	wind generator
thin-film solar	grid-connected pv	li-ion diffusion	hybrid vehicles
w7.x	smart energy	photovoltaic industry	lithium-ion battery cell
irreversible capacity	wind potential	functional electrocatalyst	drifts
lithium ion diffusion	photovoltaic solar cell	global maximum power point	electrochemical hydrogen storage
renewable energy conversion	national spherical lorus experiment	power curtailment	trough collectors
photovoltaic installation	energy-efficient building	energy building	double-fed induction
efficiency of solar cells	cellulose	ground source heat pump (gshp)	alkaline hydrogen evolution
bulk-heterojunction solar cell	perovskite photovoltaics	variable ride through	fusion power plant
fuel cell vehicles	solar pv system	layered cathode	solar modules
si solar cells	charging demand	energy crops	efficient buildings
short-circuit current density	large wind farm	properties of biodiesel	photoelectric conversion efficiency
photovoltaic systems	bio-energy	levelized cost of energy (lcoe)	pv charge
charging load	qualification of biomass	iodics	grid-connected pv system
inverted polymer solar cells	csp plant	integration of wind power	hvac system
tight oil reservoirs	scap3-1d	thin-film photovoltaic	wind generation
reservoir space	solar cell structure	wind turbine rotor	specific discharge capacity
multi-terminal hvdc	pv installation	li-ion cells	variable renewables
wind power	li-ar	eco-design	low voltage ride through
photovoltaic conversion	exchanged cothermal systems	maximum power point tracking algorithm	li-co2 batteries
hybrid-electric	mppt controller	solar thermal system	solar air heater
bio diesel combustion	renewable energy technology	biocatalyst	curtin.galss2 solar cells
solar hydrogen production	renewable energy	business fuel	alkaline hydrogen evolution
tubular solid oxide fuel cell	all-polymer solar cells	li+ diffusion	bio-hydrogen
photovoltaic plants	capacity fade	pv power plants	parabolic trough collectors
solar cell application	wind generation system	solar field	ultra-capacitors
wind turbine tower	vehicle to grid (v2g)	multijunction solar cells	energy efficiency of buildings
formic acid fuel cell	lithium dendrites	wind energy potential	catalytic fast pyrolysis
lithium-ion batteries (lib)	photovoltaic energy	energy efficiency of building	inverted organic solar cell
quality reservoir	renewable energy utilization	imprint renewables	hydrate reservoirs
photovoltaic cells	fast charging station	li metal batteries	16,61-phenyl-c81-butylric acid methyl ester
apart lithium-ion batteries	passar solid oxide fuel cell	reservoir volume	electric vehicles charging
high-voltage dc	ready zero energy building	bioblastic	high-capacity reservoirs
grid-side converter	thin film solar cells	torrefaction	open circuit voltage (ocv)
polymer solar cell	hi-2a tokamak	renewable energy supply	tubular solid
wind resource	dye sensitized	hybrid solar	lithium storage
li-ion cell	polymer photovoltaic	bio-fuels	solar hydrogen
oscillating water column (owc)	roof-top photovoltaic	bulk-heterojunction solar cells	reservoir permeability
high loss	energy renewable	wind power and photovoltaic	direct methanol fuel cell
photovoltaic modules	high theoretical capacity	wind turbine systems	smart charging
floating wind turbines	silicon photovoltaic	h2 storage	energy management strategy
fuel cell electric vehicle	trough solar collector	wind turbine wake	o&e
electric vehicle charging	energy access	electric propulsion system	pv inverters
hvac cable	1445012	biomass gasification	reservoir stimulation
photovoltaic power generation system	vst electrolyte	lithium-ion diffusion	spilling
solar tracking	global maximum power	the three gorges reservoir	solar power plant
pv generation	overall energy efficiency	landem cell	n719 dye
parabolic trough	wind power plant	efficient solar cells	energy-saving potential
dflgs	lithium anode	vehicle charging	distributed renewable
solid electrolyte interphase	fuel cell stacks	battery state of charge	passive house
building-integrated photovoltaic	wind farm cover	battery hybrid	voltage ride-through
electromobility shift assay	quantum dot-sensitized solar cell	cell vehicles	energy efficiency improvements
en 14214	intermittent renewable energy sources	hybrid energy system	wind power generators
solid-state lithium batteries	electric vehicle charging stations	cell vehicles	cascade reservoirs
multiaurion solar cell	discharge specific capacity	microbial fuel cells	solar plant
improve energy efficiency	quantum dot sensitized solar cells	bio diesel industry	biomass gasifier
perme performance	photovoltaic renewable energy	charging stations	high-capacity anode
small wind turbine	biorenewal feedstock	heterojunction solar cell	donor polymer
mppt technique	future fusion	fullerene solar cells	photocatalytic hydrogen
wind and solar power	wind dark	short-circuit photocurrent	thin-film silicon solar cell
linear heterojunction	building-integrated	pv inverter	high-quality reservoir
concentrating photovoltaic	cascade reservoir	ods buffer	photovoltaic array
electric mobility	photovoltaic generation system	rural electrification	photovoltaic response
pv solar	perovskite solar cell (psc)	raised wind speed	reservoir heterogeneity
pv generator	conventional reservoirs	alkaline fuel cells	solar thermal power
system energy efficiency	concentrating solar	lithium secondary batteries	international thermonuclear experimental reactor
lithium-ion storage	ground source heat pump system	photovoltaic (pv) plant	doubly fed induction generator
(pemfc)	photovoltaic power station	large-scale photovoltaic	solar and wind energy
photovoltaic technology	lvt	bio ethanol production	
bio diesel feedstock	shale reservoir	estm (pfs)	
fuel cell vehicle	energy saving potential	hydrogen-storage	
ground heat exchangers	power forecast	use of renewable energy	
lithium storage capacity	porch cell	fuel cell electrode	
energy efficient building	air batteries	point tracker	
wind turbine generators	solar-to-fuel	se film	
li-ion	odc	hydrogen production rate	
composite anode	concentrated photovoltaic	inertial confinement fusion (icf)	
galss2	sulfur batteries	proton exchange membranes	
solid electrolyte interface (sel)	hydrogen storage metal	li solar cell	
sustainable energy system	wind power production	proton exchange membrane fuel cells (pemfc)	