

## 8-10 MARCH 2023 3rd MOMENTOM INTERNATIONAL CONGRESS

## ENERGY AT THE CROSSROADS:

Accelerating innovation in the age of disruption















	Day 1 - March, 8th				
	Day 1 - March, oth			Location	Chairwoman / Chairman
8:30 -9:30	Welcome coffee			Emmy Noether Hall	Chair Woman / Chairman
9:30-10:00	Introductory words: UPSac	lav IFS MSH			
10:00-10:45	Elena Baranova	Hydrogen from Water electrolysis for a Changing World	Plenary #1	Amphi	
10:45-11:15	Valérie Briois	Synchrotron Radiation at the Crossroads of the Sustainable Energy Science from Today to Tomorrow	Keynote #1	- F	
11:15-11:35	Emmanuel Cadot	Chalco-POM based catalysts: from fundamentals to hydrogen evolution real-life application	O#1	Ď	Hynd Remita / Loïc Assaud
11:35-11:55	Jean-Paul Kleider	Status and perspectives of photovoltaics	O#2	Gra	
11:55-12:10	Short presentations: booth	15			
12:10-14:00	Lunch			Emmy Noether Hall	
14:00-14:45	Ivana Hasa	Sodium-ion Batteries: challenges and opportunities for an alternative sustainable energy storage technology	Plenary #2	ے و آت	
14:45-15:15	Bénédicte Menez	Geologic Hydrogen: sources, fluxes and relationships with deep microbial activity and abiotic organic synthesis	Keynote #2	Grand Amphi	Magali Gauthier
15:15-15:45	Damien Ernst	Reinforcement learning for electrical markets and the energy transition	Keynote #3	ΘĀ	
15:45-16:15	Coffee Break			Emmy Noether Hall	
	3 parallel sessions				
	Session 1: Energy Production	on - Photovoltaics			
16:15-16:30	Lise Watrin	Routes for low cost III-V solar cells	O#3	i.	
16:30-16:45	Fatima Santos	Solid-state monolithic dye-sensitized solar cell exceeding 10 % of power conversion efficiency using a copper-complex HTM and a carbon counter-electron	d O#4	Amphi	
16:45-17:00	Sookyung Kang	High bandgap triple mesoscopic perovskite solar cells	O#5	Φ	Emmanuel Cadot
17:00-17:15	Thomas Campos	Study of the formation of 2D/3D perovskite heterostructures for solar cells	O#6	ra	
17:15-17:30	Zeyu Chi	Promising Ultra-wide Bandgap Spinel ZnGa2O4 for Energy Storage and Conversion	O#7	Ō	
	Session 2: Energy Storage -				
16:15-16:30	Xavier Mascarenhas	Deep eutectic solvents as sustainable electrolytes for supercapacitors	O#8		
16:30-16:45	Margarita Bosmi	Functionalizing graphene with tetrazine derivatives to design new materials for supercaps	O#9	1826	
16:45-17:00	Julius Akinribido	A multiscale study of the electronic and ionic transport processes influencing the performance of Lithium-ion batteries	O#10	۳ 1	Fabien Miomandre
17:00-17:15	Ivan Leteyi Mfiban	A study of sulfide-based solid electrolytes (SSEs) sensitivity towards humidity: gas evolution quantification and degradation mechanisms investigation	O#11	Roor	
17:15-17:30	Malaurie Paillot	Fundamental understanding of concentrated aqueous electrolytes for batteries	O#12	œ.	
17:30-17:45	Said Yagoubi	Multi-scale study of lithium diffusion in garnet-type solid electrolyte: Neutron powder diffraction and NMR spectroscopy analysis.	O#13		
10:15 10:22	Session 3: Energy and Socie	·	0#14		
16:15-16:30	Jean-Marc Salotti	Alternative scenario for the energy transition	0#14	1836	
16:30-16:45 16:45-17:00	Elena Apostoli Cappello	Local narratives and energy scapes. Energy transition seen from the margins of a coal region  Macketing the esplaying impacts of digital experiencing Organizations Describes and indirect effects.	O#15		Pierre Guibentif / Patrick
16:45-17:00 17:00-17:15	Cedric Gossart	Measuring the ecological impacts of digital organisations: Organisational learning and indirect effects  Testing the impacts of disaggregated renewable energy sources on economic growth: evidence of spatial spillover effects for developing countries	O#16 O#17	E O	Schembri
17:00-17:15	Katia Radja Fawaz Salihou	The impacts of combining incentives on carpooling for commuting in Paris Metropilitan area	O#17	8	
17:15-17:30	Poster session #1 + Cocktai			Emmy Noether Hall	
17:45-15:45	ruster session #1 + Cockta			Linning Noether Hall	

	Day 2 - March, 9th				
	3 parallel sessions			Location	Chairwoman / Chairma
	Session 1: Energy Networks				
9:00-9:15		Evaluation of industrial hubs designs to enable the infrastructure for a hydrogen market	O#19		
9:15-9:30	Clément Lasselin	From energy technology complexity to socio-technical approach: the bioenergy example	O#20	nd ihc	
9:30-9:45	Murilo Cardoso De Miranda	Use of reversible pump-turbines (RPT) as an alternative to expand "submotorized" hydropower plants (HPP) in Brazilian Electric System - Case Study of Foz do Areia	O#21	Grand Amphi	Marc Petit
9:45-10:00	Angela Rosa Angelica Maragno	o Scalability of an Integrated-PEC for high efficiency Hydrogen production	O#22		
	Session 2: Energy conversion -	hydrogen			
9:00-9:15	Mohamed Nawfal Ghazzal	Bandgap tuning of Graphdiyne to promote photogenerated charge separation and Photocatalytic Hydrogen Production	O#23	92	
9:15-9:30	Jennifer Peron	Highly Porous Iridium Oxides Electrocatalysts for Proton Exchange Membrane Water Electrolyzers	O#24	1826	
9:30-9:45	Karine Philippot	Ruthenium nanocatalysts for electrocatalytic hydrogen evolution reaction	O#25	Room	Johnny Deschamps
	Clothilde Mariusse	Challenge and prospects for the development of hydrogen and renewable Gases in France	O#26	Roc	
	Caraina 3: Frank and CO3 and				
9:00-9:15	Session 3: Energy and CO2 cor Dorota Rutkowska-Zbik		O#27	9	
9:00-9:15	Phong Duong Hong	Density Functional Studies on Photocatalytic Methane Coupling over Au/TiO2 Selective electrochemical reduction of CO to n-propanol and ethanol by nitride-derived bimetallic catalysts	O#27 O#28	1836	
	0 0		O#28 O#29	Ę	Anne Dolbecq
9:30-9:45	Philipp Gotico Si Thanh Dong	Shaping the Electrocatalytic Performance of Metal Complexes for CO2 Reduction  Forming multiple C-C bonds upon electrocatalytic reduction of CO2 by molecular transition metal macrocycles	O#29 O#30	Room	
	Coffee Break	Forming multiple C-C bonds upon electrocatarytic reduction of CO2 by molecular transition metal matrocycles	U#30	Emmy Noether Hall	
	Stéphane Goutte	The challenges of rare earths in the energy transition	Plenary #3	Litting Noether Hall	
	Nicolaos A. Cutululis	Offshore energy hubs	Keynote #4	Grand Amphi	Yara Hodroj
	Anne Dolbecg	Offshire Effergy hads	Reynote #4	Grana Ampin	Tara riouroj
12:00-12:00		DIM Material		Emmy Noether Hall	
	Innovation Session			Ziminy Noccinci Tidii	
14:00-14:30	Pascal Boulanger	Vertically Aligned Carbone Nanotubes – a new material for energy, from the lab to mass production	Plenary #4		
	Andrea Klochko	Airthium, an engine to decarbonize the planet			
30	Ana Rocha	Innovation across organizational and disciplinary boundaries at Lemon Energy; enhancing industrial energy performance based on data		Amphi	
15:	Erwan Pannier	Low-electricity Hydrogen Production with Methane Pyrolysis Catalyzed by NanoPulsed Plasma		Απ	
14:30-15:30	Daniel Lincot / Jean-Michel			Grand	Stanislas Pommeret
41	Lourtioz	SoY PV: the photovoltaic innovation in action		5.ra	/ Elsa Couderc
	Alexandre Marc	Combustion engines, the only viable and scalable means of decarbonizing maritime mobility immediately		Ü	
15:30-16:30	Round Table	Energy at the crossroads			
	Poster session #2	J.		Emmy Noether Hall	
	Gala Dinner in Paris			,	

	Day 3 - March, 10th				
				Location	Chairwoman / Chairman
9:30-10:15	Michael Grätzel	Perovskite Photovoltaics for Electricity and Fuel Generation from Sunlight	Plenary #5	Grand Amphi	Emmanuelle Deleporte
10:15-10:45	Arnaud Barichella	Cybersecurity in the Energy sector: Challenges, Perspectives and Policy Approaches	Keynote #5	Grana Ampin	Elimanaene Beleporte
10:45-11:15	Coffee Break			Emmy Noether Hall	
	3 parallel sessions				
	Session 1: Bio-inspired en				
11:15-11:30	Théodore Bouchez	Microbial electrochemical technologies for taking advantage of the energy and carbon content of organic waste to fuel the bioeconomy sector	O#31		
11:30-11:45	Catherine Even	Microalgae for CO2 capture	O#32	Grand Amphi	Philipp Gotico
11:45-12:00	Frederic Lantz	Development of the Biofuel industry in Europe: interactions with the oil industry and the agricultural supply through a modeling approach	O#33	Gr	· ·····pp cotico
12:00-12:15	Chanjuan Zhang	Bio-Inspired Bimetallic Cooperativity Through a Hydrogen Bonding Spacer in CO2 Reduction	O#34		
	Session 2: Energy product	ion - electrocatalysis/photoelectrocatalysis			
11:15-11:30	Wojciech Macyk	Solar to chemical energy conversion - what is the potential of photocatalysis?	O#35	26	
11:30-11:45	Pablo Jimenez-Calvo	Sulfur-doped carbon nitride hybrid materials tested under green light for photoelectrocatalytic benzylamine oxidation and oxygen evolution reactions	O#36	1826	Denete Buthanile 31.1
11:45-12:00	Henri Perez	Synthesis developments and performances of non-noble metal ORR electrocatalysts by ammonia induced CO2 laser pyrolysis of liquid droplet aerosol	O#37	Room	Dorota Rutkowska-Zbik
12:00-12:15	Catia Azenha	Tuning the syngas composition obtained via electrochemical reduction of CO2 by in situ potential cycling	O#38	Ro	
	Session 3: Energy product	ion and storage - hydrogen			
11:15-11:30	Srabanti Ghosh	Conducting Polymer-Based Heterojunction for Photocatalytic Hydrogen Generation	O#39	92	
11:30-11:45	Michel Prestat	Corrosion of metallic bipolar plates and porous transport layers in proton exchange membrane water electrolyzer anodes	O#40	1836	
11:45-12:00	Giulio Cordaro	Development of a High-Throughput Approach for the Research of Materials for Protoic Ceramic Cells	O#41	۶	Guilhem Dezanneau
12:00-12:15	Pascale Launois	Development of a high-rimoughput Approach for the research of Materials for Protoinic Ceramic Cera	O#41	Rooi	
12:30-14:00	Lunch	nyurogen sorrage in day materials	O#42	Emmy Noether Hall	
			DI 116	Eminy Noctrici Han	
14:00-14:45	Sara Cavaliere	Structure-Reactivity Relationship for Pt-Rare Earth Nanoalloy Electrocatalysts for Fuel Cell Cathodes	Plenary #6	Grand Amphi	Hynd Remita
14:45-15:15	Awards Ceremony & Ackn	owledgements			Ally Aukauloo
	3 parallel sessions				
	Session 1: Energy product				
15:15-16:30	Fadila Maroteaux	Analysis of Low Temperature Combustion (LTC) process in internal combustion engines	O#43		
15:30-15:45	MariaMendez	Bifunctional earth-abundant catalysts for solar to hydrogen fuel production	O#44	Grand Amphi	Macyk Wojciech
15:45-16:00	Amanda Lyn Robinson	Unveiling the Mechanism of the Photocatalytic Reduction of CO2 to Formate Promoted by Porphyrinic Zr-Based Metal-Organic Frameworks	O#45	Gr	macyk Wojercen
16:00-16:15	Encarnacion Torralba	Synthesis of p-Silicon/Agx Cu100-x Photocathodes applied to light-assisted CO2 reduction	O#46		
	Session 2: Energy harvesti	ng - microdevices			
15:15-16:30	Marie-Amandine Pinault- Thaury	Diamond semiconductor: its challenging n-type doping	O#47	326	
15:30-15:45	Quang-Chieu Bui	Influence of GaN NW diameter on their piezo-conversion properties: Effect of the surface charges	O#48	Room 1B26	Remith Pongilat
15:45-16:00	Ann-Lenaig Hamon	Micro-device optimization for energy harvesting applications	O#49	200	
16:00-16:15	Jokotadeola Odutola	Unlocking the photophysics of mesoporous graphitic-carbon nitride (mpg-CN)	O#50	œ.	
	Session 3: Energy transition	in			
15:15-16:30	Dirk Lauinger	On Robust Optimization, Blackouts and the Law	O#51	36	
15:30-15:45	Diana Monroy	Predator-Prey model of a technological renewable-based energy transition	O#52	1836	
15:45-16:00	Alexandre Mathieu	A meta-analysis of the concept of "green jobs": the search for sustainable development paths in developing countries	O#52	Коот	Natalia Zugravu
		The data analysis of the concept of green jobs. The search for sustainable development paths in developing countries	0,755	U	
16:00-16:15	Matteo Capaldo	Damping analysis of Floating Offshore Wind Turbine (FOWT): a new control strategy reducing the platform vibrations	O#54	2	

	Poster session day #1		
1	Alessandro Perazio	Acidic Electroreduction of CO2 to Multi-Carbon Products with Continuous CO2 Recovery from Carbonate	P#1
2	Olivier Plantevin	Strain and Optoelectronic tuning in Mixed Halide Perovskites with Ion Irradiation	P#2
3	Maria El Khoueiry	Characterization of molecular catalysts by Atomic Force Microscopy combined to Scanning Electrochemical Microscopy for the Hydrogen Evolution Reaction	P#3
4	Yassine Naciri	Compositional, Structural, and Surface Characterization of Titanium doped Imogolite Clay Nanotubes: Implications for Photocatalytic Hydrogen Production	P#4
5	Yutzil Segura	Copper-based nanoparticles for CO2 electroreduction	P#5
6	Sharyal Zafar	Decentralized Control of EVs in Smart Grid using Multi-Agent Multi-Armed Bandits	P#6
7	· · · · · · · · · · · · · · · · · · ·	Direct Synthesis and Electrochemical Characterization of Nasicon-Type Li2NaV2/PO4)3 Cathode	P#7
8	Caroline Mary	Doping influence on g-C3N4 based heterojunction for hydrogen production by water splitting under solar irradiation	P#8
9	Narimane Meziani	Effect of hydration on the properties of a superionic conductor MZTI205.(HZQ)x	P#9
10	Emma Stephan	Electrical behavior and stability under real outdoor working conditions of triple-mesoscopic perovskite solar cells.	P#10
11	Elio El Semaan	State estimation of low voltage networks using machine learning techniques	P#11
12	Ahmed Ihlal	Experimental investigations on atmospheric water harvesting using composite desiccant-based solar collector	P#12
13	Alexandre Bach	Fault location on MV distribution grids with distributed measurements	P#13
14	Wahid Ullah	Graphdiyne quantum dots: new metal free co-catalyst for efficient photocatalytic hydrogen generation	P#14
15	Mahmoud Attia	Investigations of diffusion and NMR properties in LLAZO through a multiscale simulations approach linked to experimental data	P#15
16	Ana Rocha	Innovation across organizational and disciplinary boundaries at Lemon Energy: enhancing industrial energy performance based on data analysis	P#16
17	Adrien Smith	Metalloporphyrins bearing imidazolium groups for CO2 reduction	P#17
18	Qingyang Xi	Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell	P#18
19	Girlie Eunice Lopez	Photocatalytic Oxygen Reduction to Hydrogen Peroxide from Oxygen and Water by Metal- free Nano-Polypyrrole	P#19
20	Haroon Rashid	Polymeric porphyrin-based material for the activation and reduction of CO2	P#20
21	Alisha Khan	Porous Composite Nanomaterials Based On MOFs For Green Hydrogen Production	P#21
22	Emile Emery	Power Grid Structure for the Energy Transition	P#22
23	· · · · · · · · · · · · · · · · · · ·	Enhancement of Photocatalytic Hydrogen Generation on TiO2 by AuPd nanoalloys	P#23
24	Sawako Nakamae	Thermogalvanic Energy Conversion Improvement in Ionic Liquids Redox Solvation and Coordination Chemistry	P#24
25	Catherine Harvey	Towards the Electrolysis of Seawater by Iridium and Iridium Mixed Based Oxide Nanoclusters for the Generation of the Hydrogen Energy Carrier	P#25
26	Joseph Scola	Interfacial properties of a ZnO-polymer nanocomposite for PENG applications	P#26
27	Dana Stanescu	Intrinsic photoanode band engineering: surface segregation mediated enhanced solar water splitting efficiency in Ti-doped hematite nanorods	P#27
28	Julius Akinribido	A multiscale study of the electronic and ionic transport processes influencing the performance of Lithium-ion batteries	P#28
28		A multiscale study of the electronic and ionic transport processes influencing the performance of Lithium-ion batteries	P#28
28	Poster session day #2	A multiscale study of the electronic and ionic transport processes influencing the performance of Lithium-ion batteries	P#28
		A multiscale study of the electronic and ionic transport processes influencing the performance of Lithium-ion batteries  Routes for low cost III-V solar cells	P#28
29	Poster session day #2		
29 30	Poster session day #2 Lise Watrin	Routes for low cost III-V solar cells	P#29
29 30	Poster session day #2 Lise Watrin Hanah Matmati	Routes for low cost III-V solar cells 3 generation of green gas: from the circular economy of the territory to the resilience of gas networks	P#29 P#30
29 30 31	Poster session day #2 Lise Watrin Hanah Matmati Vien-Duong Quach	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction	P#29 P#30 P#31
29 30 31 32	Poster session day #2 Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production	P#29 P#30 P#31 P#32
29 30 31 32 33 34	Poster session day #2  Lise Watrin  Hanah Matmati  Vien-Duong Quach Sébastien Votat  Amaury Chevillard  Xingze Wang  Marie-Amandine Pinault-Thaury	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances	P#29 P#30 P#31 P#32 P#33 P#34 P#35
29 30 31 32 33 34 35 36	Poster session day #2 Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Marie-Amandine Pinault-Thaury	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond	P#29 P#30 P#31 P#32 P#33 P#34 P#35
29 30 31 32 33 34 35 36	Poster session day #2 Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36
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29 30 31 32 33 34 35 36 37	Poster session day #2 Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38
29 30 31 32 33 34 35 36 37 38 39	Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40
29 30 31 32 33 34 35 36 37 38 39	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40
29 30 31 32 33 34 35 36 37 38 39 40 41	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  Ionic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42
29 30 31 32 33 34 35 36 37 38 39 40 41	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions	P#29 P#30 P#31 P#32 P#33 P#34 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#43
33 34 35 36 37 38 38 39 39 30 31 31 31 31 31 31 31 31 31 31 31 31 31	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#43 P#44
229 33 34 35 36 37 38 39 30 31 31 31 31 31 31 31 31 31 31	Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy	P#29 P#30 P#31 P#32 P#33 P#35 P#36 P#37 P#39 P#40 P#41 P#44 P#44
229 30 31 32 33 33 34 43 55 38 38 39 940 41 11 42 42 43 44 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#44 P#45 P#46
33 33 33 34 35 36 37 38 88 39 40 41 41 42 43 44 44 45 46	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MiV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  Ionic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#43 P#44 P#45 P#46 P#47
229 331 322 333 344 355 366 377 388 399 400 411 412 414 414 414 416 417 418	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet Lauro Ferreira	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MDFs as a versatile platform for the photocatalytic overall water splitting reaction  Ionic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization  Operation of Power Diodes at Cryogenic Temperature	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#40 P#41 P#42 P#44 P#44 P#44 P#44 P#44
229 331 322 333 344 355 366 377 388 399 400 411 412 414 414 414 416 417 418	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MiV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  Ionic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization	P#29 P#30 P#31 P#32 P#33 P#36 P#37 P#36 P#37 P#39 P#40 P#41 P#42 P#43 P#44 P#45 P#46 P#47 P#48
229 331 332 333 344 355 36 37 38 39 40 411 42 43 444 445 446 447	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet Lauro Ferreira	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MDFs as a versatile platform for the photocatalytic overall water splitting reaction  Ionic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally Ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization  Operation of Power Diodes at Cryogenic Temperature	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#43 P#44 P#45 P#45
229 331 322 333 344 355 366 37 38 39 40 41 41 42 43 44 44 45 46 47 47 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49	Poster session day #2  Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet Lauro Ferreira Viet-Dung Duong Ashutosh Kumar Hanah Matmati	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally ion Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization  Operation of Power Diodes at Cryogenic Temperature  Semiconducting conjugated oligomers for photo-driven water oxidation  Thermoelectric Properties of high-entropy rare-earth cobaltates  3rd gas	P#29 P#30 P#31 P#32 P#33 P#34 P#35 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#45 P#44 P#45 P#44 P#45 P#48 P#49 P#55
229 30 30 33 33 33 34 35 36 66 63 37 40 41 42 43 44 44 45 46 46 47 48 49 50 50 51 51 52 52 53	Lise Watrin Hanah Matmati Vien-Duong Quach Sébastien Votat Amaury Chevillard Xingze Wang Marie-Amandine Pinault-Thaury Marie-Amandine Pinault-Thaury Thanh-Tuan Bui Matthieu Haake Cong Wang Marie Le Pivert Valentin Delachaux Raihana Benyahia Moataz El Sied Peigen Xie Nicolas Dubouis Qingyang Xi Corentin Chatelet Lauro Ferreira Viet-Dung Duong Ashutosh Kumar	Routes for low cost III-V solar cells  3 generation of green gas: from the circular economy of the territory to the resilience of gas networks  Artificial strong metal-support interaction on plasmonic core-shell nanostructures for photo(electro)catalytic reaction  Bioremoval of dyes in a microbial fuel cell by the fungus Trichoderma harzanium: a sustainable approach in energy production  GaN nanowire-based piezoelectric devices for energy harvesting: Impact of the NW/polymer matrix composite  Heterometallic (MIV/MII) MOFs as a versatile platform for the photocatalytic overall water splitting reaction  lonic analysis of phosphorus doped-diamond homoepilayers grown with different carbon isotopic abundances  Locally lon Implantation and Annealing Effects in Diamond  Molecular engineering of hole transporting molecules for high efficient and enhanced thermal stability perovskite solar cell  Selective Aqueous Electrocatalytic CO2-to-CO Reduction with a Cobalt-based Molecular Cathode  Structure-Engineered TiO2: Harvesting Light for Photocatalytic H2 Production  ZnO nanostructures based photocatalytic civil engineering materials development for urban pollution remediation  Why are photovoltaic/thermal solar collectors (PVT) yet on the way to be a key technology of buildings energy transition, especially for DHW preparation?  Nickel based anodes for the electro-oxidation of urea and synthetic urine in alkaline media  The way to 100% MW scale renewable power systems: future challenges and promising solutions  Smart building simulation and control  How R&D Can Help us Transform into a Clean H2 Economy  Nb, N co-doped TiO2 nanoparticles for broad spectrum solar light activation photocatalysis  Vertically aligned carbon nanotubes on aluminum foils: one-step synthesis from bio-sourced precursors and electrochemical characterization  Operation of Power Diodes at Cryogenic Temperature  Semiconducting conjugated oligomers for photo-driven water oxidation  Thermoelectric Properties of high-entropy rare-earth cobaltates	P#29 P#30 P#31 P#32 P#33 P#36 P#37 P#38 P#39 P#40 P#41 P#42 P#43 P#44 P#45 P#46 P#47 P#48