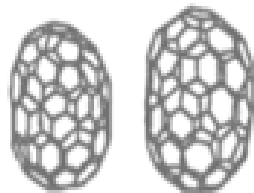


EMCMRE-4

**THE FOURTH EURO-MEDITERRANEAN
CONFERENCE ON MATERIALS AND
RENEWABLE ENERGIES**

ABSTRACTS



EMCMRE-4

Marrakech-Morocco

May 8-11, 2017

Foreword

On behalf of the organizing committee, we would like to welcome you to Marrakech. The main objective of this fourth Euro-Mediterranean Conference on Materials and Renewable Energies (EMCMRE-4) is to strengthen the collaboration between materials scientists and researchers from Europe and those from countries on the south and eastside of the Mediterranean Sea. The scientific topics of this conference series focus particularly on energy harvesting, energy storage and materials for renewable energies.

The steadily increasing role of nano-science and nanotechnology in renewable energies, particularly in photovoltaic, batteries and novel materials, is emphasized. These topics are infused with the dynamic of the undergoing solar energy in the Mediterranean countries.

The targeted audience includes Professors, Researchers and Engineers from Universities, Engineering Schools and Research Institutes, with a special emphasis on the participation of PhD and Masters Students from both sides of the Mediterranean Sea. The conference includes Oral and Poster presentations as well as plenary and keynote lectures given by high profile scientists. The proceedings of the conference will be published in the international Journal of Physics; Conference Series.

For the present EMCMRE-4, we are grateful to the Argonne National Laboratory, the OCP Group, MASEN, Axess Tech, Scienta Omicron, PROBion analysis, Nanosurf, ISMO and Paris-Sud University, University of Central Florida, Cadi Ayyad University, Faculty of Sciences Semlalia of Marrakech, Synchrotron SOLEIL, International Centre for Theoretical Physics (ICTP), STARM and AJCFSR for their financial support. We would like also to extend our warmest thanks to all the other sponsors for their generous assistance and the members of the local organizing committee for their valuable help.

The Steering Committee

Keynotes and invited speakers

Energy Storage

Keynote speaker:

Prof. Yi Cui (*Tenured Associate Professor, Stanford University, USA*)

Invited speakers:

Prof. Khalil Amine (*Distinguished Fellow and Team Manager, Argonne National Laboratory, USA*)

Prof. Guohua Chen (*Professor and Department Head, Hong Kong University of Science and Technology, Hong Kong*)

Prof. Stanley Whittingham (*Distinguished Professor, SUNY Binghamton, USA*)

Dr. Andreas Hintennach (*Chemist and Medical Doctor, Mercedes-Benz, Germany*)

Prof. Xiao Qing Yang (*Group Leader, Brookhaven National Laboratory, USA*)

Dr. Filippo Maglia (*Senior Materials Expert, BMW, Germany*)

Dr. Ali Abouimrane (*Principal Scientist, Qatar Environment and Energy Research Institute, Qatar*)

Dr. Jun Lu (*Chemist, Argonne National Laboratory, USA*)

Prof. Jean Le Bideau (*Professor, University of Nantes, France*)

Prof. Abdelilah Benyoussef (*Professor, Mohammed V University, Morocco*)

Spectroscopies for Advanced Materials and Energy Conversion

Keynote speaker: Dr. Moulay Tahar Sougrati (*Research Engineer, CNRS, France*)

Invited speakers:

Dr. Antonella Iadecola (*Research Engineer, Soleil Synchrotron, France*)

Dr. Phoebe K. Allan (*Senior Support Scientist and Junior Research Fellow, University of Cambridge, United Kingdom*)

Prof. Lorenzo Stievano (*Professor, Montpellier University, France*)

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Prof. Fouad Ghamouss (*Associate Professor, François Rabelais University, France*)

Prof. Patrik Johansson (*Professor, Chalmers University of Technology, Sweden*)

Prof. Laurène Tetard (*Assistant Professor, University of Central Florida, USA*)

Solar and Biofuels

Keynote speaker: Prof. Abdou Lachgar (*Professor, Wake Forest University, USA*)

Invited speakers:

Prof. Scott M. Geyer (*Assistant Professor, Wake Forest University, USA*)

Theory and Modeling

Invited speakers:

Prof. Natalie A. W. Holzwarth (*Professor, Wake Forest University, USA*)

Prof. Moncef Said (*Professor, University of Monastir, Tunisia*)

Dr. Ari Paavo Seitsonen (*Research scientist, ENS-CNRS, France*)

Prof. Benkhettou Nour-Eddine (*Professor, Djillali Liabes University, Algeria*)

Dr. Andres Saul (*Senior Research Associate, CINA-M-CNRS, France*)

Novel Materials

Keynote speaker: Prof. Daniel Malterre (*Professor, University of Lorraine, France*)

Invited speakers:

Prof. Giovanni Marletta (*Professor, University of Catania., Italy*)

Prof. Thomas Greber (*Professor, Zurich University, Switzerland*)

Dr. Bernard Aufray (*Senior Research Associate and Team Head, CINA-M-CNRS, France*)

Prof. Mustapha Ait Ali (*Professor, University Cadi Ayad, Morocco*)

Prof. Michael Altman (*Professor and Department Head, Hong Kong University of Science and Technology, Hong Kong*)

Dr. Geoffroy Prévot (*Researcher, INP-CNRS, France*)

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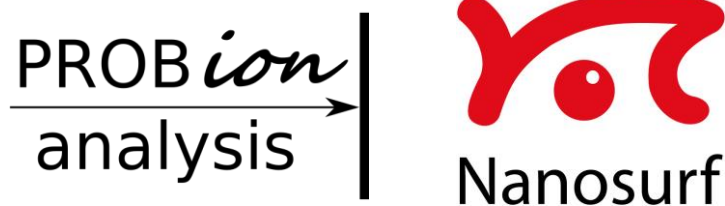
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We would like to thank the following for their financial support:



The Abdus Salam
International Centre
for Theoretical Physics



DETAILED PROGRAM

Energy Storage

Novel Materials

Solar and Biofuels

Spectroscopies for Advanced Materials and Energy Conversion

Theory and Modeling

Sunday, May 7, 2017

15:00-20:00	Registration at the KENZI FARAH Hotel
18:00-20:00	Welcome reception at the KENZI FARAH Hotel

Monday, May 8, 2017

08:00-09:00	Registration
08:30-09:00	Opening Ceremony
	Chairman : Prof. M. Stanley Whittingham, SUNY Binghamton, USA
09:00-09:45	Keynote: Prof. Yi Cui <u>Nanomaterials Design for Energy Storage</u>
09:45-10:00	Noha Sabi <u>P2-Na_xCo_{1-y}Ti_yO₂: a high performance cathode material for sodium ion batteries</u>
10:00-10:30	Invited: Prof. Guohua Chen <u>Lithium- Sulphur Batteries: Challenges and Opportunities</u>
10:30-11:00	Coffee break / Poster session
	Chairman : Prof. Yi Cui, Stanford University, USA
11:00-11:30	Invited: Dr. Filippo Maglia <u>Next Generation Automotive Batteries – Challenges in Research and Application</u>
11:30-11:45	Dr. Abdelfattah Mahmoud <u>Spray Drying-Assisted Synthesis of Na₂FePO₄F/CB and Na₂FePO₄F/CNT Composite Cathodes for Lithium Ion Battery</u>
11:45-12:15	Invited: Prof. M. Stanley Whittingham <u>Reaching the Limits of Intercalation Reactions for Li-Ion Batteries using multi-electron redox centers</u>

12:15-14:00	LUNCH
	Chairman: Prof. Guohua Chen, Hong Kong Polytechnic University, Hong Kong
14:00-14:15	Dr. Siham Doubaji <i><u>(1 - y) P2 - NaxCoO2 – y P2 - NaxMn2/3Ni1/3O2 solid-solution as high performance cathode materials for sodium-ion batteries: Impact of transition metals composition and a new insight into the P2 high voltage plateau</u></i>
14:15-14:45	Invited: Dr. Khalil Amine <i><u>Advanced High Energy chemistries for automotive batteries</u></i>
14:45-15:15	Invited: Dr. Jun Lu <i><u>Anion-Redox Solid Nanolithia Cathode for Li-ion Battery</u></i>
15:15-15:30	Mahmud Tokur <i><u>Silicon/Carbon Yolk-Shell with Internal Void Space for Lithium Ion Battery Anodes</u></i>
15:30-16:00	Invited: Dr. Ali Abouimrane <i><u>High energy density lithium ion batteries with reduced first cycle irreversibility</u></i>
16:00-16:30	Coffee break / Poster session
	Chairman : Dr. Filippo Maglia, BMW, Germany
16:30-17:00	Invited: Prof. Xiao-Qing Yang <i><u>Using Synchrotron Based In situ X-ray Diffraction and Absorption and TXM Techniques to Study the New Electrode Materials for Next Generation of Batteries</u></i>
17:00-17:30	Invited: Prof. Jean Le Bideau <i><u>Ionogels for Energy Storage : the Determining Effect of the Interface</u></i>
17:30-18:00	Invited: Prof. Abdelilah Benyoussef, <i><u>Production and Storage of hydrogen: Modeling and Simulation</u></i>
18:00-18:30	Invited: Dr. Andreas Hintennach

Tuesday, May 9, 2017	
	Chairman: Dr. Ari Paavo Seitsonen, ENS-CNRS, France
08:30-09:15	Keynote: Prof. Daniel Malterre <i>Electronic properties of nanostructured surfaces studied by electron spectroscopies</i>
09:15-09:30	Yongfeng Tong <i>Investigation of Organic/Metal Interface by X-ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy</i>
09:30-10:00	Invited: Prof. Thomas Greber <i>Single layer boron nitride membranes</i>
10:00-10:30	Coffee break / Poster session
	Chairman: Prof. Abdou Lachgar, Wake Forest University, USA
10:30-10:45	Sofia Boukheir <i>Structural and electrical characteristics of carbon nanotubes/epoxy polymer composites</i>
10:45-11:15	Invited: Prof. Michael Altman <i>Controlling Growth of 2D Materials on Metals: Defects, Strain, Orientation</i>
11:15-11:30	Issam Boukhoubza <i>Dynamics of the etching effects on the optoelectronic properties of ZnO nanorods for renewable energy applications</i>
11:30-11:45	Khadija Djeriouat <i>Study Of The Properties Of Photoactive Layers Of Multi-junctions Cells Based On Ingap / Ingaas / Ge .</i>
11:45-12:00	Sponsor contribution
12:00-14:00	LUNCH
	Chairman: Prof. Laurène Tetard, University of Central Florida, USA
14:00-14:45	Keynote: Prof. Abdou Lachgar <i>Semiconductors Heterojunctions For Enhanced Photocatalytic Hydrogen Production</i>
14:45-15:00	Dounya Barrit <i>Hybrid Perovskite Solar Cells: In situ investigation of solution-processed PbI2 precursor films used in the two-step fabrication of CH3NH3PbI3 films</i>
15:00-15:30	Invited: Prof. Scott M. Geyer <i>Earth-abundant iron diboride (FeB2) nanoparticles as highly active bifunctional electrocatalysts for overall water splitting</i>
15:30-15:45	Rhizlane Hatel <i>A comparative study of graphene derivatives-Fe3O4 nanocomposites: Structural and optical properties</i>
15:45-16:00	Mohamed Achehboune <i>Optoelectronic properties of Doped ZnO nanostructures synthesized via a green process for renewable energy applications</i>

16:00-16:30	Coffee break / Poster session
	Chairman: Prof. Hervé Martinez, Pau University, France
16:30-17:15	Keynote: Dr. Moulay Tahar Sougrati <u>Mössbauer spectroscopy for electrochemical energy storage and conversion materials</u>
17:15-17:45	Invited: Dr. Antonella Iadecola <u>X-Ray Absorption Spectroscopy studies on battery active materials</u>
17:45-18:15	Invited: Dr. Phoebe K. Allan <u>Pair distribution function analysis of lithium- and sodium-ion battery materials</u>

Wednesday, May 10, 2017		
	Chairman: Dr. Moulay Tahar Sougrati, CNRS, France	Chairman: Dr. Andres Saul, CINaM-CNRS, France
08:30-09:00	Invited: Prof. Lorenzo Stievano <u>Analysing operando spectroscopy data in battery studies: a chemometric approach</u>	Invited: Prof. Natalie A.W. Holzwarth <u>Simulations of idealized solid electrolytes</u>
09:00-09:30	Invited: Prof. Hervé Martinez <u>X-Ray Photoelectron Spectroscopy and Auger Electron Spectroscopy Investigations of Li- and Na-Ion Batteries</u>	Invited: Dr. Ari Paavo Seitsonen <u>Physics of h-BN and gr mono-layers on metal substrates</u>
09:30-10:00	Invited: Dr. Fouad Ghamouss <u>Electrochemical Impedance spectroscopy for the investigation of electrochemical interfaces in Li-ion batteries and supercapacitors</u>	Brahim Abraime <u>Energy product and magnetic properties of strontium hexagonal ferrite: experimental and theoretical investigation</u>
		Imane Matrane <u>Molecular dynamics study of Diffusion of adsorbates on metal surfaces</u>
10:00-10:30	Coffee break / Poster session	

	Chairman: Dr. Moulay Tahar Sougrati, CNRS, France	Chairman: Dr. Ari Paavo Seitsonen, ENS-CNRS, France
10:30-10:45	<p>Prof. Mostefa Benhaliliba <i><u>Fabrication and electrical characterization of Au/ZnPc/p-Si/Al and Au/AlPc/p-Si/Al organic heterostructures</u></i></p>	<p>Prof. Yassine Djaballah <i><u>Thermodynamic analysis of the Sr-Se and Sr-Te systems using the calphad approach supported by ab initio calculations</u></i></p>
10:45-11:15	<p>Invited: Prof. Patrik Johansson <i><u>Ex situ, in situ, and operando Raman Spectroscopy of Battery Electrolytes</u></i></p>	<p>Invited: Prof. Moncef Said <i><u>Ab-initio study of electronic proprieties of two-dimensional materials</u></i></p>
11:15-11:45	<p>Invited: Prof. Laurène Tetard <i><u>Nanoscale functional toolbox for materials in renewable energy</u></i></p>	<p>Invited: Dr. Andres Saul <i><u>Magnetoelastic interactions in SrCu₂(BO₃)₂ : orthogonal Cu dimers acting as magnetic nanopantographs</u></i></p>
11:45-12:15	<p>Prof. Michaël Deschamps <i><u>Nuclear Magnetic Resonance For The Characterization Of Battery Materials</u></i></p>	<p>Invited: Prof. Nour-Eddine Benkhetou <i><u>A First-Principles Study of Half-Metallic Ferrimagnetism in Ti₂FeZ (Z=Al, Ga, In) Heusler Alloys</u></i></p>
12:15-12:30	<p>Hind El Aakib <i><u>Influence of the Deposition Parameters on the Optical and Structural Properties of Copper Oxide doped Co Thin Films Deposited by RF Sputtering</u></i></p>	<p>Loubna Laaouina <i><u>Separation of machine errors, probe errors and roundness errors using multiple indexation measurements</u></i></p>
12:30-12:45	<p>Lamyaa Kreit <i><u>Studies on the Dielectric Properties of Olive-Pomace Grains-Reinforced Polymer Matrix Composites</u></i></p>	<p>Noura Aarich <i><u>Theoretical Photovoltaic Dc Yield Maps In Morocco Using Linear Model</u></i></p>
12:45-14:00	LUNCH	
	FREE AFTERNOON	
18:00	BANQUET	

Thursday, May 11, 2017	
	Chairman : Dr. Andrew Mayne, ISMO-CNRS – University of Paris-Sud, France
08:30-08:45	Moustafa Achlan <u>Enhancement of the surface plasmon polariton resonances of a stack of thin films</u>
08:45-09:15	Invited: Prof. Giovanni Marletta <i>Nanostructuring Poly(3-hexylthiophene): From Substrate-driven Nanocrystallinity To Nanohybrid Fiber Networks</i>
09:15-09:30	Hichem Maradj <u>Growth of Zn and ZnO thin films on Ag(110): an AES-LEED and STM study</u>
09:30-09:45	Dr. Gacem Lakhdar <u>Luminescence properties of a novel blue emitting phosphor by Cobalt ion doped potassium zinc diphosphate</u>
09:45-10:00	Sponsor Contribution
10:00-10:30	Coffee break / Poster session
	Chairman : Dr. Andrew Mayne, ISMO-CNRS – University of Paris-Sud, France
10:30-11:00	Invited: Dr. Bernard Aufray <u>What's up about growth and atomic structures of silicene monolayers on silver substrate</u>
11:00-11:30	Invited: Dr. Geoffroy Prévot <u>Structure And Growth Mechanisms Of Silicene Layers</u>
11:30-11:45	Khalid Quertite <u>Silicene Growth On NaCl Insulating Thin Films</u>
11:45-12:15	Invited: Prof. Mustapha Ait Ali <u>Soft chemical synthesis of 2D-nanomaterials: Silicon sheet and black phosphorus</u>
12:15-12:30	Tiouitchi Ghassane <u>An easy route to synthesis black phosphorus at low pressure and soft conditions</u>
12:30-12:45	Awards Presentations and Closing Ceremony
12:45-14:00	LUNCH

Poster Contributions

P01	Hamza Bennacer	<i>Optoelectronic properties of CuGaTe₂-based solar cells: First-principles study via mBJLDA approach</i>
P02	Mohammed Tayeb AbedGhars	<i>Characteristics of calamine and natural pigment for anti-rust painting</i>
P03	Ammar Maouassi	<i>A numerical study of nanofluid heat transfer (TiO₂) through a solar flat plate collector</i>
P04	Djoudi Lakhdar	<i>Symmetric and anti-symmetric form factors, energy gaps and optical properties of B_xAl_yGa_{1-x-y}N/AlN</i>
P05	Hamza Rekab Djabri	<i>First principles study of structural and electronic, properties of AgBr and AgCl</i>
P06	Mostefa Merabet	<i>Band gap behavior of thallium phosphide and gallium phosphide binary compounds and their ternary alloys Tl_xGa_{1-x}P (x=0.25, 0.5 or 0.75)</i>
P07	Nadjet Benadla	<i>Optimize photovoltaic cell IBC (Interdigitated Bec Contact) performance by numerical simulation</i>
P08	Samir Bellarbi	<i>Sliding mode control for PMSG-based wind power system</i>
P09	Ali Amara	<i>Synthesis and optical properties of phosphate compound doped with rare earth</i>
P10	Saliha Zellag	<i>Investigation of TiO₂ insulator layer effects on electrical characteristics of Au/n-GaAs by the simulation of courant voltage (I-V) at room temperature</i>
P11	Laila Mahtout	<i>Elimination of an acid dye by photo catalytic degradation</i>
P12	Nouara Benabdeslam	<i>Influence of grinding parameters on the mineralogical and textural characteristics of black phosphate ore from Kef Es Sennoun mine at Djebel Onk mine</i>
P13	Habib Rached	<i>First principle calculations of Iron-based double perovskite oxides on the structural phase stability, electronic and thermodynamic properties</i>
P14	Youcef Guermit	<i>Electronic and elastic properties of Rattling Heusler X₂HgSn (X= Ba, Ca)</i>
P15	Mohamed Drief	<i>Half-metallic Ferrimagnetism in the Ti₂FeZ (Z=Al, Ga, In) Heusler</i>
P16	Raja Mouachi	<i>A new hybrid crypto-scheme based on AES and ECC in Smart Grid</i>
P17	Haroun Righi	<i>Theoretical investigation of the elastic, thermodynamic, electronic and magnetic properties of NdPd₂Ge₂ ; NdAu₂Ge₂d</i>
P18	Salima Bouadjela	<i>Effect of the functionality on the electro-optical response of the PDLC films</i>

P19	Noureddine Boucerredj	<i>Resonance effects on laser energy absorption and ions energies ejected from explosion of metallic clusters irradiated by intense femtosecond laser</i>
P20	Abdennacer Lemmoui	<i>Contribution to the reduction of edge cracks which occur in steel slabs in continuous casting</i>
P21	Ahmed Settouf	<i>Structural, electronic, optical and elastic properties of ternary alloy BxAl1-xP</i>
P22	Sara Bechlaghem	<i>Investigation of solar cell performances based on Cu(In,Ga)Se₂ with non-cadmium buffer layer through TCAD-SILVACO tools</i>
P23	Amina Benkaddour	<i>Study of the physical properties of the rare earth materials HoX(X = N, P and As)</i>
P24	Nadjat Ben Bellil	<i>First principles calculations of the structural and electronic properties of SnMS₃(M=Zr, Sn)</i>
P25	Soumia Boualem	<i>Study of the annealing effect in GaN/GaAs Schottky diodes</i>
P26	Kheira Kefif	<i>Ellipsometric Study of Nanocrystalline Silicon Thin Films Prepared by a RF Magnetron Sputtering at Low Growth Temperatures</i>
P27	Amina Belasri	<i>Study of the structural, electronic, thermodynamic and magnetic properties of AgCr₂Ga Heusler alloys by first principals approachs</i>
P28	Fayssal Djelti	<i>ZnO nanorods effect on hydrogen sensor based on AlGa_N/Ga_N HEMT</i>
P29	Ali Hadji	<i>Effect of chemical composition and heat treatment on the degradation of manganese steels</i>
P30	Abdelouahab Benretem	<i>Single and twisted blades digital simulation and dynamic analysis</i>
P31	Abir Ababou	<i>Contribution to calculations of the physico-chemical properties of binaries PrX(X=S, Se, Te) By the ab initio method</i>
P32	Omar Sahnoun	<i>High thermoelectric performance of doped perovskite-type: First principal calculation</i>
P33	Abdelkader Hafdallah	<i>Effect of Al and In doped ZnO thin films deposited by ultrasonic spray method</i>
P34	Melouka Baira	<i>Electronic properties of Eu³⁺ and Li⁺ co-doped Ca₂SnO₄</i>
P35	Zoulikha Benhalima	<i>Low thermal conductivity in n-type YbyCo₄Sb₁₂ single filled Skutterudites</i>
P36	Amaria Bekhti-Siad	<i>Electronic and electric transport properties of Zintl phase AE₃TrPn₃</i>
P37	Naoui Gattal	<i>A new sixteenth-order method for solving nonlinear equations</i>
P38	Mohammed Benamar Siad	<i>Calculations of structural, electronic and optical properties of CaF₂ scintillator crystal</i>

P39	Mohammed Kara	<i>Proposal for a new compensation structure for electrical energy losses: The method of linear programming</i>
P40	Khaled Hebali	<i>Dissociative adsorption of methane on Pd(111) surface with and without adatom: density functional calculation</i>
P41	Samia Daikh	<i>Preparation and characterization of the new conducting composites obtained from 2-methylaniline and aniline with activated carbon by in-situ intercalative oxidative polymerization</i>
P42	Yasmina Saidi	<i>A new analytical model for the transconductance and the output conductance of the short gate length GaAs MESFET's</i>
P43	Nacera Si Ziani	<i>Structural, electronic and optical properties of AgSbTe₂: An ab initio study with the Tran-Blaha-modified Becke-Johanson density functional</i>
P44	Larabi Mekki	<i>Study of a turbulent reactive flow of accidental releases of flammable gases</i>
P45	Halima Benchenane-Mehor	<i>Modeling of planar micro-coil for trapping biological species in microfluidic systems (BioMEMS)</i>
P46	Thomas Jungers	<i>Quantitative study of formation mechanisms of Li₄Ti₅O₁₂ via the Internal Standard Method</i>
P47	Omar Mounkachi	<i>Magnetic refrigeration systems: numerical modeling, design and optimization</i>
P48	Jadoul Lamiae	<i>Optical emission from sputtered particles during ion bombardment of chromium and its oxide</i>
P49	Khalid Fellaoui	<i>An exciton - polariton laser using molecular biology</i>
P50	Ahmad Afkir	<i>Angular distribution of sputtered Fe, Cr and Al particles under Kr⁺ bombardment with normal incidence from Fe_{71.9}Cr_{5.6}Al_{22.5} alloy</i>
P51	Mourad Rzaizi	<i>Quantum confinement and electronic properties of CuIn_(1-x)GaxSe₂ nanowires</i>
P52	Ghita Garhi	<i>Cobalt doped materials based on 5V-LiMn_{1.5}-Ni_{0.5}O₄ spinel as a positive electrode of Lithium-Ion Batteries</i>
P53	Soumia Belkharchach	<i>Natural phosphate coated sulfonic acid: New material used as recyclable catalyst for One-pot synthesis of 2-phenylbenzimidazole</i>
P54	Lahcen Fkhar	<i>Study of structural and superparamagnetism effect in Novel spinel ferrites Nd-SnFe₂O₄</i>
P55	Joachim Wallenstein	<i>Operando Raman Spectroscopy on electrolytes and anodes for Li-ion batteries</i>

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