

# CURRICULUM VITAE

## I – PERSONAL DATA

**Alain CELZARD**, Full Professor, Lorraine University, Institut Jean Lamour (UMR CNRS 7198)

Born on 20<sup>th</sup> of April 1971 at Lunéville (France), French Citizen

1<sup>st</sup> Appointment in Higher Education and Research: 1<sup>st</sup> of September 1996



Jan. 2023: Supervisor of the 2022 winner of the Association Française des Femmes diplômées d'Université (AFFDU) prize.

Oct. 2022: Appointed Senior Member of the Institut Universitaire de France (IUF) (2022)

Jul 2022: Supervisor of the 2022 winner of the C2MP doctoral school thesis prize

Since Oct. 2020: in the List of Top 2% Scientists of the World (Stanford University)

Oct. 2021: Supervisor of the winner of the 2021 IAWS PhD Award and Medal, the 2021 C'Nano Est PhD Award and the 2021 Young Researcher Award of SFEC

Jul. 2019: Charles E. Pettinos Award "for recent outstanding research accomplishments in carbon science and technology", awarded by the American Carbon Society (3<sup>rd</sup> Frenchman to receive it in the 50 years of the award's existence)

Apr. 2019 & Sept. 2021: Supervisor of the Micromeritics prize winners, awarded by SFEC

Mar 2017: Elected Fellow of the International Academy of Wood Science (IAWS)

Jul 2016: Supervisor of the 2016 winner of the French Carbon Society Award

Jun 2015: JSPS (Japan) Fellowship in Riken Institute (Wako, Tokyo)

Jul 2013: Supervisor of the 2013 winner of the French Carbon Group Award

Nov 2012: 1<sup>st</sup> Prize of Innovative Techniques for the Environment (2012), awarded by ADEME

Nov 2012: German High Tech Champion Award (2012), awarded by Fraunhofer Ges. (Germany)

Oct 2012: Appointed Fellow of the Lorraine Academy of Sciences

Nov 2011: 1<sup>st</sup> Prize of the Researcher Award, awarded by the Council of the Lorraine Region

Oct 2010: Appointed Junior Member of the French University Institute (IUF) (2010)

Oct 2003: Grand Research Prize (2003) awarded by the Eastern Industrial Society (France)

Dec. 1996: Welcomed at House of Chemistry, Paris, by the Minister of Higher Education and Research, for being the youngest lecturer of the Nancy – Metz Education Academy

Since 2000, and without interruption: Recipient of the Doctoral and Research Supervision Bonus (or the Scientific Excellence Bonus), at the maximum rate

Outstanding Peer Reviewer Award (Elsevier) in 2011, 2013, 2015, 2015, 2017

## II – HIGHER EDUCATION

June 2002 Habilitation for Directing Researches at LCSM, UMR 7555 (University Henri Poincaré (UHP) – Nancy I): « *Highly disordered carbonaceous and derived materials* »

June 1995 PhD thesis at LCSM, URA 158 (UHP): « *Percolation studies in anisotropic composite materials* »

June 1993 M.Sc. in Materials Science + Magister of Molecular Engineering, Materials, Processes

June 1991 B.Sc. in Chemical Physics (UHP)

## III – POSITIONS AND APPOINTMENTS

Oct. 2022: IUF Senior Member (1<sup>st</sup> chemist from the Lorraine Region to enter this category)

Sept. 2021: Distinguished professor (full) at highest level (2<sup>nd</sup> and last grade)

Feb. 2017 & 2016: 6-month sabbatical leaves at the French National Center for Scientific Research (CNRS)

Sept. 2015: Distinguished professor (full) at ENSTIB, UHP-Épinal and IJL, UMR 7198, Nancy

Oct. 2010 : IUF Junior Member (1<sup>st</sup> chemist from the Lorraine Region to join IUF 20 years after its creation)

Sept. 2009: 1<sup>st</sup>-class professor (full) at ENSTIB, UHP-Épinal and IJL, UMR 7198, Nancy

Sept. 2005: 2<sup>nd</sup>-class professor (full) at ENSTIB, UHP-Épinal and LCSM, UMR 7555, Nancy

Sept. 1996: Assistant professor at LCSM, UMR 7555, Nancy

Aug. 1995 – 1996: Military Service

Oct. 94 – July 95: Teaching Fellow at LCSM, Nancy

Oct. 93 – Sept. 94: Excellence scholarship holder for being valedictorian at LCSM, Nancy

## IV – RESEARCH ACTIVITIES AND SCIENTIFIC REPUTATION

### ● Research topics :

- Percolation in epoxy – graphite particles composites (1992 – 1995)
- Conducting properties of disordered carbons and powders (1996 – 2002)
- Composite electrodes of supercapacitors (1999 – 2000 and 2002 – today)
- Modelling of exfoliated graphite and related physical properties (1999 – 2005)
- Methane storage by physical adsorption and hydrate formation (2000 – 2005)
- Preparation and catalytic properties of supported Mo<sub>2</sub>C nanoparticles (2001 – 2006)
- Preparation and physical properties of gels, monoliths and carbon foams (2003 – today)
- Adsorption of VOCs on functionalised activated carbons (2003 – 2006)
- Biomass and derived carbonaceous materials for energy and environment (2005 – today)
- Hydrogen storage by high-pressure adsorption on nanoporous materials (2005 – today)
- Applications of percolation and effective medium theories to various colloidal systems (2007 – 2011)
- Hydrothermal synthesis of carbons and nanomaterials (2011 – today)
- Electromagnetic applications of architected porous carbons and metamaterials (2012 – today)
- Thermal and acoustic properties of biosourced porous media (2012 – 2020)
- Clean water production by solar evaporation on photothermal materials (2021 – today)
- Smart composites based on soft matrices and liquid fillers (2022 – today)
- Adsorption-based gas sensors (2023 – today)

### ● Scientific expertise:

- Referee for +90 international journals
- Associate Editor for Materials (MDPI), Nanomaterials (MDPI), Carbon Resources Conversion (KeAi & Elsevier), Materials & Design (Elsevier), and Invited Editor for Journal of Applied Physics (AIP)
- 2005 – 2015: Member of the Innovation Council of the Competitiveness Cluster « Fibres Grand'Est »
- Since 2006: Expert for many institutions (European Commission, ANR, CNRS, AERES & HCERES, DRRT (Research Tax Credit), Aquitaine Regional Council, Canada Foundation for Innovation, MITACS (Canada), MICA Carnot Institute, Excellence Laboratory (LABEX) ARBRE)
- PhD Thesis / HDR reviewer: 43 times since 2006
- Member or president of 10 selection panels for recruiting researchers

### ● Memberships of scientific societies:

- 1999 – now: French Carbon Group participant then board member (2013-): <https://sfec-carbone.org/presentation-sfec/>
- 2012 – now: Fellow of the Lorraine Academy of Sciences: <http://als.univ-lorraine.fr/presentation.html>
- 2013 – now: Member of 5 CNRS research networks: “Wood Science” (since 2013), “Hydrogen & Fuel Cells” (since 2014), “Bio-based building materials” (since 2017), “Repairing the Human” (since 2017), “Radiative transfers, materials, systems and associated processes” (since 2019)
- 2017 – now: Fellow of the International Academy of Wood Science: <http://www.iaws-web.org/en/>
- 2019 – now: Member of the Steering Committee of the *Bordet Group* company: <http://www.groupebordet.fr>
- 2019 – now: Member of the American Carbon Society: <https://www.americancarbonsociety.org/>

### ● Institutional responsibilities: (only a selection)

- 2023 – now: Elected member of CNU (National Council of Universities), Materials Chemistry section
- 2019 – 23: Appointed member of CNU, Materials Chemistry section
- 2017 – 22: Head of Department “Nanomaterials, Electronics and the Living” at IJL laboratory (7 research teams, >100 people): <http://ijl.univ-lorraine.fr/recherche/departement-nanomateriaux-electronique-et-vivant-n2ev>

- / and Member of the Executive Board at IJL (largest lab of the Chemistry Institute of the CNRS in France): <https://ijl.univ-lorraine.fr/en>
- 2018 – 22: Member of the Board of the ICEEL Carnot Institute: <https://iceel.eu/en/>
  - 2012 – 17: Founder and head of team “Biosourced materials” at IJL, Université de Lorraine, France: <http://ijl.univ-lorraine.fr/recherche/departement-nanomateriaux-electronique-et-vivant-n2ev/materiaux-bio-sources/>
  - 2006 – 12: Scientific Director of CETELOR (textile technology transfer centre), then Scientific Advisor since 2015: <https://cetelor.univ-lorraine.fr/>
  - 2006 – now: Elected member of the Board of ENSTIB: <https://www.enstib.univ-lorraine.fr/en/>
  - 2005 – 15: Member of the Innovation Council of the Competitiveness Cluster « Fibres Grand’Est »
  - 2005 – 12: Research Manager at ENSTIB, Université de Lorraine, France
  - 1999 – 21: Member or president of 10 selection panels for recruiting researchers in various universities
- **Major collaborations:** (only a selection from the last years: lab-univ acronym/country acronym)
    - *Europe* M. Sevilla & J.A. Menéndez (≠ labs at INCAR-CSIC/ES), F. Carrasco-Marín (UGR/ES), M.T. Izquierdo (ICB-CSIC/ES), E. Palomo del Barrio (CIC energiGUNE/ES), K. Mandel & M. Thommes (≠ labs at FAU/DE), M. Kwiatkowski (AGH-UST/PL), J. Banys (VU/LT), P. Kuzhir (UEF/FI), J.B. Sanchez (Femto-ST/FR), M. Etienne, A. Pasc & G. Maranzana (≠ labs at UL/FR)
    - *Americas* T.J. Badosz (CUNY/US), J. Jagiello (Micromeritics®/US, now in Poland), J. Matos Lale (UAC/CL)
    - *Others* M.R. Saeb (Tehran Univ/IR), D. Bychanok (INP-BSU/BY)
  - **Organisation of 16 international + 2 national conferences (2007 – 2025)**
    - 2025 *World Conference on Carbon 2025*, Saint-Malo, France / **org. + scientific committees** / ~500 attendees expected
    - 2024 *Annual Symposium of the French Carbon Society*, Saint-Dié-des-Vosges, **org. committee / chair** / 80 attendees
    - 2023 *CESEP 2023*, Budapest, Hungary, **International advisory board** / ~120 attendees
    - 2022 *Matériaux 2022* international conf., Lille, France / **scientific committee** / ~2000 attendees expected
    - 2018 *Matériaux 2018* international conf., Strasbourg, France / **scientific committee** / > 1900 attendees
    - 2009 *World Conference on Carbon 2009* Biarritz, France / **scientific committee / chairman** / 900 attendees
    - 2007 – 19 10 other international conf. (1 in Egypt, 9 in France) / **4 sci. committees, 3 org. committees, 3 sci. + org. committees**; 1 national conf. / **org. committee**; 19 local thematic days / **chair**

## V – PARTICIPATION TO RESEARCH PROGRAMS AND CONTRACTS

- International research programs: 2 GDRE, 1 France – Poland Twinning, 1 International Cooperation Program Alfa, 1 Marie-Curie ToK Action, 4 PHC, 16 European and ERDF Projects, 2 France – Russia ARCUS programs, 1 France – Canada program, 6 CNRS GDR, 1 CoopIntEER, 1 FP7 IRSES program, 1 COST program, 1 SPS NATO project
- National research programs: 1 Performance Project, 1 Collaborative Project led by AME – Lorraine, 1 FUI Program, 4 ANR, multiple Regional programs, 1 maturation project, 2 PEPR, 1 CNRS Innovation maturation program, 1 LabCom ANR
- Other Projects: 1 ATIP - CNRS project (Thematic and Incentive Program Action), 1 CPER Project (8 M€), 1 PEPS, 2 Mirabelle+
- Industrial Contracts: 33 between 1993 and 2024, 2 France-Relance programs

## VI – TRAINING






- 28 Ph.D. students; 1 D.Sc.; 24 Post-docs; 12 Undergraduates; 12 Graduates; 34 Engineer students
- In charge of 30 invited researchers

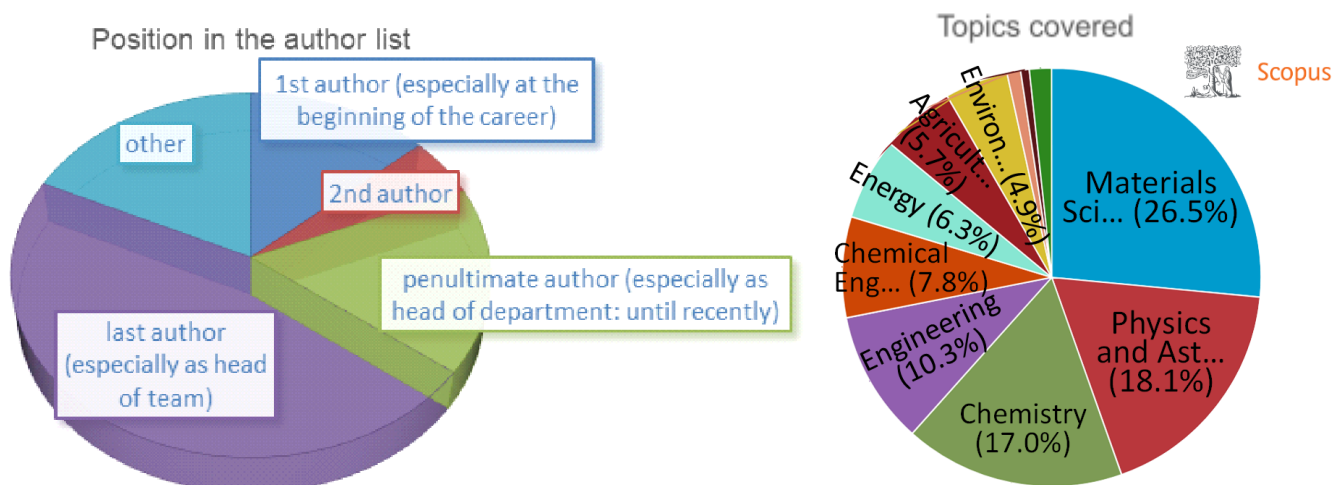
## VII – TEACHING ACTIVITIES

- 2005 – Full professor – *Thermodynamics and kinetics, Polymers and Composites, Physicochemical methods in Materials Science*. ENSTIB, Université de Lorraine, France
- 1993 – 05 Teaching fellow, then Assistant professor (1996-2005) – *General inorganic chemistry, Solid-state chemistry, Coordination chemistry, Soft chemistry, Analytical chemistry*. UHP, France

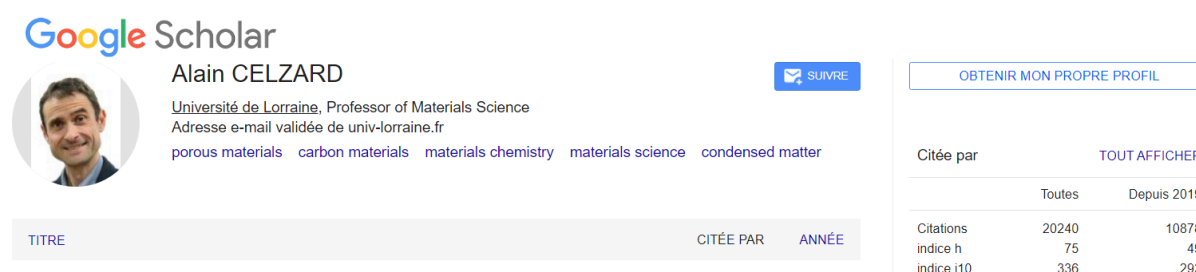
## VIII – PUBLICATIONS, COMMUNICATIONS, VALORISATION

1 collective book, 25 book chapters, 418 international A-rank publications, 21 national or foreign publications, 11 patents, 61 invited lectures (47 in the past 10 years) including 5 plenary and 8 keynote lectures)

(by 13/072024)	Scopus <sup>1</sup>  Scopus	ORCID <sup>2</sup>  ORCID	Researchgate <sup>3</sup>  ResearchGate	ResearcherID <sup>4</sup>  publons	GoogleScholar <sup>5</sup>  Google Scholar
<b>h-index</b>	66	-	72	62	75
<b>Citations</b>	15 668	-	18 060	14 324	20 240
<b>Nb. Documents</b>	437	442	641	430	586



Journal in which I have published the most: 50 articles in *Carbon* (IF = 10.9); 47 papers cited more than 100 times; h index = 75; i10 index = 336; 96 (230) papers in journals of IF > 8 (> 5) (i.e., 23% (55%) of my international publications)



**Google Scholar**  
Alain CELZARD  
Université de Lorraine, Professor of Materials Science  
Adresse e-mail validée de univ-lorraine.fr  
porous materials carbon materials materials chemistry materials science condensed matter

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	CITÉE PAR	
	Toutes	Depuis 2019
Citations	20240	10878
indice h	75	49
indice i10	336	293

<sup>1</sup> Scopus Author ID: 7003664865: <https://www.scopus.com/authid/detail.uri?authorId=7003664865>

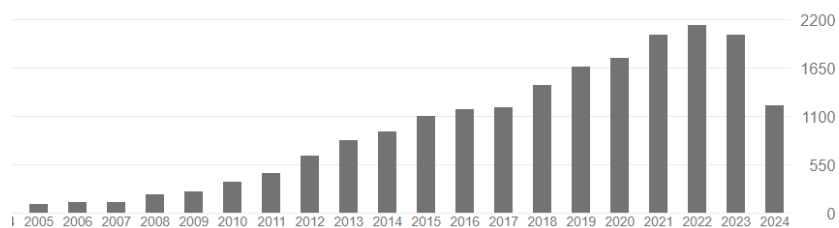
<sup>2</sup> <https://orcid.org/0000-0003-0073-9545>

<sup>3</sup> [https://www.researchgate.net/profile/Alain\\_Celzard/](https://www.researchgate.net/profile/Alain_Celzard/)

<sup>4</sup> ResearcherID: D-2428-2013: <https://publons.com/researcher/1291169/alain-celzard/>

<sup>5</sup> <http://scholar.google.fr/citations?user=F5ZywcAAAAAJ&hl=fr>

Nombre de citations par an



Visibility on the ResearchGate network: 531 128 reads  
(by 13/07/2024) Research interest score : 10 315  
1 982 followers  
4 193 recommendations

**International visibility:** Mentioned in the "**World Ranking of Scientists (2%)**" database listing the 2% most influential researchers: **Ranked 1,070<sup>th</sup> researcher in the world in "Material" out of 117,692 listed by November 2023, i.e., in the top 1%<sup>6</sup>**



Wikipedia : [https://fr.wikipedia.org/wiki/Alain\\_Celzard](https://fr.wikipedia.org/wiki/Alain_Celzard)





Rankings for Scientist

University, Subject,  
Country, Region, World



# Alain Celzard

## AD Scientific Index 2024



Université de Lorraine

Natural Sciences / Physics



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	SCORES	RANKINGS			
		In Université de Lorraine (1,058)	In France (41,171)	In Europe (493,680)	World (1,614,761)
<b>Total H Index</b>	74	#8	#487 <i>Top 3%</i>	#8,195	#24,076 <i>Top 3%</i>
<b>Last 6 years H Index</b>	48	#8	#434 <i>Top 3%</i>	#7,981	#24,011 <i>Top 3%</i>
<b>Last 6 years / Total H Index</b>	0.649				
<b>Total i10 Index</b>	327	#5	#171 <i>Top 3%</i>	#3,504	#9,999 <i>Top 3%</i>
<b>Last 6 years i10 Index</b>	284	#3	#82 <i>Top 3%</i>	#1,937	#5,541 <i>Top 3%</i>
<b>Last 6 years / Total i10 Index</b>	0.869				
<b>Total Citation</b>	19,761	#10	#816 <i>Top 3%</i>	#12,659	#38,519 <i>Top 3%</i>
<b>Last 6 years Citation</b>	10,411	#7	#542 <i>Top 3%</i>	#9,614	#29,043 <i>Top 3%</i>
<b>Last 6 years / Total Citation</b>	0.527				
<b>Natural Sciences *</b>		#2 (156) *	#??? (8,228) *	#??? (82,471) *	#??? (259,294) *
<b>Physics *</b> porous materials   carbon materials   materials chemistry   materials science   condensed matter		#1 🏆 (47) *	#??? (1,983) *	#??? (19,443) *	#??? (55,969) *