CURRICULUM VITAE

STEFANIA FERRARI
Professore Associato di Chimica Fisica

INFORMAZIONI PERSONALI

Affiliazione:
Dipartimento di Farmacia, Università "G. d'Annunzio" Chieti-Pescara
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Dati anagrafici:

- Sesso: Femminile
- Data di nascita: 10/10/1975

Metriche scientifiche:

- h-index: 28
- Citazioni totali: 2380 (Scopus)

ESPERIENZA PROFESSIONALE

Periodo	Ruolo e Istituzione
2021 - in corso	**Professore Associato** (GSD 03/CHEM-02 Chimica Fisica Cod. SSD CHEM-02/A Chimica Fisica)
	Università "G. d'Annunzio" Chieti-Pescara
	Temi di ricerca: Materiali per elettrochimica, batterie ricaricabili (Li-ion, Na-ion, ioni multivalenti), elettrofilatura, drug delivery.
2018 - 2021	**Ricercatore Senior** (Tipo B, art. 24 comma 3 lett. b L. 240/2010)
	Università "G. d'Annunzio" Chieti-Pescara

Periodo	Ruolo e Istituzione
	Temi di ricerca: Materiali per elettrochimica, batterie avanzate.
2017 - 2018	**Docente di Chimica Inorganica**
	Xi'an Jiaotong-Liverpool University (Cina) 111 Ren'ai Road Suzhou Industrial Park – Suzhou - Jiangsu Province - P. R. China - 215123
2014 - 2017	**Ricercatore Senior**
	Warwick Manufacturing Group (WMG), University of Warwick, Coventry CV4 7AL United Kingdom
2013 - 2014	**Assegnista di Ricerca**
	Università di Pavia, Dipartimento di Chimica, Sezione di Chimica-Fisica
	Temi di ricerca: Materiali per elettrochimica, catodi per batterie ricaricabili Litio-ione, studio del polimorfismo di principi attivi faramaceutici.
2010 - 2012	**Assegnista di Ricerca**
	Università di Pavia, Dipartimento di Ingegneria
	Temi di ricerca: Assorbitori per laser ultraveloci basati sui nanotubi di carbonio single walled.

ISTRUZIONE E FORMAZIONE

- **2011: Dottorato di Ricerca in Scienze Chimiche**
  Università di Pavia
  Tesi: "Sintesi e caratterizzazione di materiali per l' elettrochimica"
- **2007: Laurea Magistrale in Chimica**
  Università di Pavia
  Tesi: "$Li_4Ti_5O_{12}$ puro e drogato: studio strutturale e spettroscopico"

PROGETTI DI RICERCA (ultimi 5 anni)

1. **Programma Operativo Nazionale PON Ricerca e Innovazione" 2014- 2020, "Contratti di ricerca su tematiche Green"**
   Coordinatrice scientifica del progetto" Riciclo economico ed efficiente di materiali di scarto per lo stoccaggio di energia sostenibile in un approccio di economia circolare."
   Periodo: 01/22 – 12/24
2. **PRIN 2022 PE3**
   PE - Physical Sciences and Engineering –PE3
   Coordinatrice scientifica UdA del progetto "2D Van der Waals heterostructures for novel concepts in energy storage " (CUP: DS3D23002170006)
   Periodo: 09/23 – 02/26
3. **MUR PRIN PNRR 2022**
   PE - Physical Sciences and Engineering –PE5
   Partecipante al progetto: " Carbon-High AdsoRption bY Bi-functionalizeD solId Sorbents. CHARYBDIS"
   Periodo: 11/23 – 10/25
4. **UdAProVal POC 2022 (Proof of Concept)**
   Coordinatrice scientifica del progetto: " Sviluppo di un PrototIpo elettrofilato a base Cu2O/carbone come anodo di Nuova generazioNe pER battErie al liTio – SPINNERET "
   Periodo: 09/23– 03/25

5. **Programma di ricerca CN00000023 "Sustainable Mobility Center (Centro Nazionale per la Mobilità Sostenibile) Bando a cascata SPOKE 13: Politecnico di Milano (POLIMI)**
   Coordinatrice scientifica UdA –Progetto "SUDELBAT- Advanced and sustainable approaches for design and analysis of innovative solid-state electrolytes for next-generation lithium batteries"
   Periodo: 07/24– 09/25
6. **Programma di Ricerca e Innovazione dal titolo "Sicilian Micronanotech Research And Innovation Center" SAMOTHRACE – CUP E63C22000900006**
   Coordinatrice scientifica UdA –Progetto "SCALECAP – Scaling-up the production of graphene-metal oxides nanocomposites for supercapacitors"
   Periodo: 11/24– 12/25
7. **HORIZON Marie Skłodowska- Curie Actions Doctoral Networks (MSCA-DN)**
   Progetto: eNargiZinc Towards innovative and affordable sodium- and zinc-based electrochemical energy storage systems composed of more sustainable and locally-sourced materials (Project 101120311) Partner Associato di INSTM Shared PhD candidate enrolled at University of Camerino
   Periodo: 2023-2026

ATTIVITÀ ACCADEMICA

Membro del comitato editoriale:

- *Materials* (MDPI), *Materials Today Energy* (Elsevier), *Frontiers in Materials*

Insegnamenti:

- Chimica Fisica (9 CFU), Imaging e caratterizzazione chimico-fisica di biomateriali (6 CFU), Chimica Fisica ambientale (3 CFU)

Responsabilità istituzionali:

- Delegata del Rettore nel CdA di INSTM (2024-2028)

CONVEGNI E RICONOSCIMENTI

Presentazioni invitate:

- 2019: Simposio AIT Battery (Vienna)

Premi:

- 2011: Premio "Fiamm" per tesi di dottorato (Società Chimica Italiana)

APPARTENENZE SCIENTIFICHE

- Membro di GISEL- Centro di Riferimento Nazionale per i Sistemi di Accumulo Elettrochimico di Energia
- Membro BEPA (Batteries European Partnership Association)

PUBBLICAZIONI

Articoli, peer-reviewed.

1. M. Ciulla, M. Rashada, M. Span, L. Mannina, S. Garzoli, G. Zengin, S. Di Giacomo, P. Bruni, P. Di Profio, A. Fontana, S. Ferrari, A. Cataldi, S. Carradori, S. Zara
   Characterization of Mucins, Glycosaminoglycans, and Bioactive Compounds in Helix aspersa's slime by Spectroscopic and Biochemical Analysis
   (2026) Journal of Molecular Structure, 1349, 143838
2. M. Ciulla, V. Canale, R. D. Wolicki, S. Pilato, P. Bruni, S. Ferrari, G. Siani, A. Fontana, P. Di Profio
   Enhanced CO_2 Capture by Sorption on Electrospun Poly(Methyl Methacrylate)
   (2023) Separations, 10, 505.
3. N. Angulakhsmi, A. Bebin, S. Sathya, M. Kathiresan, G. Lingua, S. Ferrari, E. Bhoje Gowd, W. Wang, C. Shen, G. A. Elia, C Gerbaldi, A. Manuel Stephan
   Enhanced electrochemical performance of hybrid solid polymer electrolytes encompassing viologen for all-solid-state lithium polymer batteries
   (2023) ACS Materials Au https://doi.org/10.1021/acsmaterialsau.3c00010
4. P. Bruni, P. Avino, V. Ferrone, S. Pilato, N. Barbacane, V. Canale, G. Carlucci, S. Ferrari
   Preparation of Fe_3O_4-Reduced Graphene-Activated Carbon from Wastepaper in the Dispersive Solid-Phase Extraction and UHPLC-PDA Determination of Antibiotics in Human Plasma
   (2023) Separations, 10, 115.
5. V. Ferrone, G. Carlucci, P. Bruni, L. Marinelli, P. Avino, E. Milanetti, S. Pilato, L. Sbrascini, P. Di Profio, S. Ferrari
   Synthesis and Characterization of Electrospun Sorbent for the Solid-Phase Extraction of Fluoroquinolones in Human Plasma and Their UHPLC-PDA Determination
   (2023) Separations, 10, 104.
6. V. Ferrone, P. Bruni, V. Canale, L. Sbrascini, F. Nobili, G. Carlucci, S. Ferrari

Simple Synthesis of Fe_3O_4@-Activated Carbon from Wastepaper for Dispersive Magnetic Solid-Phase Extraction of Non-Steroidal Anti-Inflammatory Drugs and Their UHPLC–PDA Determination in Human Plasma
(2022) Fibers,10, 58.

7. D. Spada, P. Bruni, S. Ferrari, B. Albini, P. Galinetto, V. Berbenni, A. Girella, C. Milanese, M. Bini
Self-Supported Fibrous Sn/SnO_2@C Nanocomposite as Superior Anode Material for Lithium-Ion Batteries
(2022) Materials, 15, 919. https://doi.org/10.3390/ma15030919
8. E. Maruccia, S. Ferrari, M. Bartoli, L. Lucherini, G. Meligrana, C. F. Pirri, G. Saracco, C. Gerbaldi
Effect of Thermal Stabilization on PAN-Derived Electrospun Carbon Nanofibers for CO_2 Capture
(2021) Polymers, 13, 4197
9. S. Ferrari, M. Falco, A.B. Muñoz-Garcia, M. Bonomo, S. Brutti, M. Pavone, C. Gerbaldi
Solid-state post Li metal ion batteries: a sustainable forthcoming reality?
(2021) Advanced Energy Materials, DOI: 10.1002/aenm.202100785
10. F. Maroni, P. Bruni, N. Suzuki, Y. Aihara, S. Gabrielli, G. Carbonari, M. Agostini, M. Branchi, S. Ferrari, M. A. Navarra, S. Brutti, A. Matic, F. Nobili, F. Croce
Highly stable Fe_3O_4/C composite: a candidate material for all solid-state lithium-ion batteries
(2020) Journal of the Electrochemical Society, 167, 070556
11. G. Meligrana, S. Ferrari, L. Lucherini, J. Celè, F. Colò, J. Brugger, C. Ricciardi, R. Ruffo, C. Gerbaldi
$Na_3V_2(PO_4)_3$-supported electrospun carbon nanofiber nonwoven fabric as self-standing Na-ion cell cathode
(2020) ChemElectroChem,7, 1652-1659
12. M. Falco, S. Ferrari, G. B. Appetecchi, C. Gerbaldi
Managing transport properties in composite electrodes/electrolytes for all-solid-state lithium based batteries
(2019) Molecular Systems Design & Engineering, 4, 850-871
13. C. Ferrara, S. Ferrari, M. Bini, D. Capsoni, G. Pintacuda, P. Mustarelli
To which extent is paramagnetic solid state NMR able to address polymorphism in complex transition metal oxides?
(2018) The Journal of Physical Chemistry Letters, 9, 6072-6076
14. L. Somerville, S. Ferrari, M.J. Lain, A. McGordon, P. Jennings, R. Bhagat
An in-situ reference electrode insertion method for commercial 18650-type cells
(2018) Batteries, 4, 18.
15. R. Genieser, S. Ferrari, M. Loveridge, S. D. Beattie, R. Beanland, H. Amari, G. West, R. Bhagat
Lithium ion batteries (NMC/graphite) cycling at 80˚C: different electrolytes and related degradation mechanism
(2018) Journal of Power Sources, 373, 172-183.
16. A. Abaza, S. Ferrari, H. K. Wong, C. Lyness, A. Moore, J. Weaving, M. Blanco-Martin, R. Dashwood, R. Bhagat
Experimental study of internal and external short circuits of commercial automotive pouch lithium-ion cells
(2018) Journal of Energy Storage, 16, 211-217.
17. G. S. Pappas, S. Ferrari, X. Huang, R. Bhagat, D. M. Haddleton, C. Wan
Heteroatom doped-carbon nanospheres as anodes in lithium ion batteries
(2016) Materials, 9, 35.
18. S. D. Beattie, M.J. Loveridge, M. J. Lain, S. Ferrari, B. J. Polzin, R. Bhagat, R. Dashwood
Understanding capacity fade in silicon based electrodes for lithium ion batteries using three electrode cells and upper cut-off voltage studies
(2016) Journal of Power Sources, 302, 426-430.
19. S. Ferrari, M. C. Mozzati, M. Lantieri, G. Spina, D. Capsoni, M. Bini

New materials for Li-ion batteries: synthesis and spectroscopic characterization of $Li_2(FeMnCo)SiO_4$ cathode materials
(2016) SCIENTIFIC REPORTS, 6, 27896.

20. G. S. Pappas, S. Ferrari, C. Wan
Recent Advances in Graphene-Based Materials for Lithium Batteries
(2015) Current Organic Chemistry, 19, 1838-1849.
21. S. Ferrari, M. Loveridge, S. D. Beattie, M. Jahn, R. J. Dashwood, R. Bhagat
Latest advances in the manufacturing of 3D rechargeable lithium microbatteries
(2015) Journal of Power Sources, 286, 25-46.
22. S. Ferrari, E. Quartarone, C. Tomasi, M. Bini, P. Galinetto, M. Fagnoni, P. Mustarelli
Investigation of ether-based ionic liquid electrolytes for Lithium-O_2 Batteries
(2015) Journal of the Electrochemical Society, 162, A3001-A3006.
23. M. M. Kalantarian, M. Oghbaei, S. Asgari, S. Ferrari, D. Capsoni, P. Mustarelli
Understanding non-ideal voltage behaviour of cathodes for lithium-ion batteries
(2014) Journal of Materials Chemistry A, 2, 19451-19460.
24. S. Ferrari, D. Capsoni, S. Casino, M. Destro, C. Gerbaldi, M. Bini
Electrochemistry of orthosilicate-based lithium battery cathodes: a perspective
(2014) Physical Chemistry Chemical Physics, 16, 10353-10366.
25. I. Quinzeni, S. Ferrari, E. Quartarone, D. Capsoni, M. Caputo, A. Goldoni, P. Mustarelli, M. Bini
Fabrication and electrochemical characterization of amorphous lithium iron silicate thin films as positive electrodes for lithium batteries
(2014) Journal of Power Sources, 266, 179-185.
26. C. Gerbaldi, M. Destro, Jijeesh R. Nair, S. Ferrari, I. Quinzeni, E. Quartarone,
High-rate V_2O_5-based Li-ion thin film polymer cell with outstanding long-term cyclability
(2013) Nano Energy, 2, 1279-1286.
27. M. Bini, S. Ferrari, C. Ferrara, M. C. Mozzati, D. Capsoni, A. J. Pell, G. Pintacuda, P. Canton, P. Mustarelli
Polymorphism and magnetic properties of Li_2MSiO_4 (M= Fe, Mn) cathode materials
(2013) Scientific Reports, 3, 3452.
28. G. Bruni, M. Maietta, F. Scotti, L. Maggi, M. Bini, S. Ferrari, D. Capsoni, M. Boiocchi, V. Berbenni, C. Milanese, A. Marini
Structure and properties of domperidone and its succinate salt
(2013) Acta Crystallographica B, 69, 362–370.
29. G. Meligrana, F. Di Lupo, S. Ferrari, M. Destro, S. Bodoardo, N. Garino, C. Gerbaldi
Surfactant-assisted mild hydrothermal synthesis to nanostructured mixed orthophosphates $LiMn_yFe_{1-y}PO_4$/C lithium insertion cathode materials
(2013) Electrochimica Acta, 105, 99-109.
30. Quinzeni, S. Ferrari, E. Quartarone, C. Tomasi, M. Fagnoni, P. Mustarelli
Li-doped mixtures of alkoxy-PYRTFSI and organic carbonates as safe liquid electrolytes for lithium batteries
(2013) Journal of Power Sources, 237, 204-209.
31. S. Ferrari, E. Quartarone, C. Tomasi, D. Ravelli, S. Protti, M. Fagnoni, P. Mustarelli
Alkoxy substituted imidazolium-based ionic liquids as electrolytes for lithium batteries
(2013) Journal of Power Sources, 235, 142-147.
32. M. Bini, S. Ferrari, D. Capsoni, C. Spreafico, C. Tealdi, P. Mustarelli
Insight into cation disorder of $Li_2Fe_{0.5}Mn_{0.5}SiO_4$
(2013) Journal of Solid State Chemistry, 200, 70-75.
33. S. Ferrari, M. Bini, D. Capsoni, P. Galinetto, M. S. Grandi, U. Griebner, G. Steinmeyer, A. Agnesi, F. Pirzio, E. Ugolotti, G. Reali, V. Massarotti
Optimizing single-walled carbon nanotubes based saturable absorbers for ultrafast lasers

(2012) Advanced Functional Materials, 22, 4369–4375.

34. T. K. Pietrzak, M. Maciaszek, J. L. Nowiński, W. Ślubowska, S. Ferrari, P. Mustarelli, M. Wasiucionek, M. Wzorek, J. E. Garbarczyk
Electrical properties of V_2O_5 nanomaterials prepared by twin rollers technique
(2012) Solid State Ionics, 225, 658-662.
35. C. Gerbaldi, J. R. Nair, S. Ferrari, A. Chiappone, G. Meligrana, S. Zanarini, P. Mustarelli, N. Penazzi, R. Bongiovanni
New electrolyte membranes for Li-based cells: methacrylic polymers encompassing pyrrolidinium-based ionic liquid by single step photopolymerisation
(2012) Journal of Membrane Science, 423–424, 459–467.
36. A. Pacini, M. Caricato, S. Ferrari, D. Capsoni, A. Martínez de Ilarduya, S. Muñoz-Guerra, D. Pasini
Poly(γ-glutamic acid) esters with reactive functional groups suitable for orthogonal conjugation strategies
(2012) Journal of Polymer Science Part A: Polymer Chemistry, 50, 4790–4799.
37. G. Bruni, M. Maietta, L. Maggi, M. Bini, D. Capsoni, S. Ferrari, M. Boiocchi, V. Berbenni, C. Milanese, A. Marini
Perphenazine-fumaric acid salts with improved solubility: preparation, physico-chemical characterization and in vitro dissolution
(2012) CrystEngComm, 14, 6035-6044.
38. D. Capsoni, M. Bini, S. Ferrari, E. Quartarone, P. Mustarelli
Recent advances in the development of Li-air batteries
(2012) Journal of Power Sources, 220 253-263.
39. D. Capsoni, M. Bini, S. Ferrari, V. Massarotti, M. C. Mozzati
Role of Lithium Excess and Doping in $Li_{1+x}Ti_{2-x}Mn_x(PO_4)_3$ ($0.00 \leq x \leq 0.10$)
(2012) Journal of Physical Chemistry C, 116, 1244-1250.
40. R. L. Lavall, S. Ferrari, C. Tomasi, M. Marzantowicz, E. Quartarone, M. Fagnoni, P. Mustarelli, M. L. Saladino
MCM-41 silica effect on gel polymer electrolytes based on thermoplastic polyurethane (2012) Electrochimica Acta, 60, 359-365.
41. G. Bruni, M. Maietta, V. Berbenni, M. Bini, S. Ferrari, D. Capsoni, M. Boiocchi, C. Milanese, A. Marini
Preparation and characterization of carprofen co-crystals
(2012) CrystEngComm, 14, 435-445.
42. M. Bini, S. Ferrari, D. Capsoni, P. Mustarelli, G. Spina, F. Del Giallo, M. Lantieri, C. Leonelli, A. Rizzuti, V. Massarotti
Pair Distribution Function analysis and Mössbauer study of defects in microwave-hydrothermal $LiFePO_4$
(2012) RSC Advances, 2, 250-258.
43. I. Quinzeni, S. Ferrari, E. Quartarone, P. Mustarelli
Structural, morphological and electrochemical properties of nanocrystalline V_2O_5 thin films deposited by means of radiofrequency magnetron sputtering
(2011) Journal of Power Sources, 196, 10228-10233.
44. P. C. Ricci, C. M. Carbonaro, L. Stagi, A. Anedda, S. Ferrari, D. Capsoni, A. Magistris
Optical properties of sol-gel prepared Cerium doped Lutetium and Yttrium oxyorthosilicates
(2011) Journal of Non-Crystalline Solids, 357, 1908–1911.
45. Malaj, R. Censi, D. Capsoni, L. Pellegrino, M. Bini, S. Ferrari, R. Gobetto, V. Massarotti, P. Di Martino
Characterization of Nicergoline polymorphs crystallized in several organic solvents
(2011) Journal of Pharmaceutical Science, 100, 2610-2622.
46. G. Bruni, F. Gozzo, D. Capsoni, M. Bini, P. Macchi, P. Simoncic, V. Berbenni, C. Milanese, A. Girella, S. Ferrari, A. Marini
Thermal, spectroscopic, and *ab initio* structural characterization of Carprofen polymorphs

(2011) Journal of Pharmaceutical Science, 100, 2321-2332

47. M. Bini, S. Ferrari, D. Capsoni, V. Massarotti
Mn influence on the electrochemical behaviour of $Li_3V_2(PO_4)_3$ cathode material
(2011) Electrochimica Acta, 56, 2648-2655.
48. P. Galinetto, M. C. Mozzati, M. S. Grandi, M. Bini, D. Capsoni, S. Ferrari, V. Massarotti
Phase stability and homogeneity in undoped and Mn doped $LiFePO_4$ under laser heating
(2010) Journal of Raman Spectroscopy, 41, 1276-1282.
49. D. Capsoni, M. Bini, S. Ferrari, P. Mustarelli, V. Massarotti, M. C. Mozzati, A. Spinella
Structural, spectroscopic and electrical features of pure and Mn doped $LiTi_2(PO_4)_3$
(2010) Journal of Physical Chemistry C, 114, 13872-13878.
50. S. Ferrari, R. L. Lavall, D. Capsoni, E. Quartarone, A. Magistris, P. Mustarelli, P. Canton
Influence of particle size and crystal orientation on the electrochemical behaviour of carbon-coated $LiFePO_4$
(2010) Journal of Physical Chemistry C, 114, 12598-12603.
51. E. Abitelli, S. Ferrari, E. Quartarone, P. Mustarelli, A. Magistris, M. Fagnoni, A. Albini, C. Gerbaldi
Polyethylene oxide electrolyte membranes with pyrrolidinium-based ionic liquids
(2010) Electrochimica Acta, 55, 5478–5484.
52. R. L. Lavall, S. Ferrari, C. Tomasi, M. Marzantowicz, E. Quartarone, A. Magistris, P. Mustarelli, S. Lazzaroni, M. Fagnoni
Novel polymer electrolytes based on thermoplastic polyurethane and ionic liquid /LiTFSI/PC salt system.
(2010) Journal of Power Sources, 195, 5761–5767.
53. S. Ferrari, E. Quartarone, P. Mustarelli, A. Magistris, M. Fagnoni, S. Protti, C. Gerbaldi, A. Spinella
Lithium ion conducting PVdF-HFP composite gel electrolytes based on N-methoxyethyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)-imide ionic liquid
(2010) Journal of Power Sources, 195, 559 - 566.
54. D. Capsoni, M. Bini, V. Massarotti, P. Mustarelli, S. Ferrari, G. Chiodelli, M. C. Mozzati, P. Galinetto
Cr and Ni doping of $Li_4Ti_5O_{12}$: Cation distribution and functional properties
(2009) Journal of Physical Chemistry C, 113, 19664 – 19671.
55. Bini, M. C. Mozzati, P. Galinetto, D. Capsoni, S. Ferrari, M. S. Grandi, V. Massarotti
Structural, spectroscopic and magnetic investigation of the $LiFe_{1-x}Mn_xPO_4$ (x = 0-0,18) solid solution.
(2009) Journal of Solid State Chemistry, 182, 1972 - 1981.
56. S. Ferrari, E. Quartarone, P. Mustarelli, A. Magistris, S. Protti, S. Lazzaroni, M. Fagnoni, A. Albini
A binary ionic liquid system composed of N-methoxyethyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)-imide and lithium bis(trifluoromethanesulfonyl)imide: A new promising electrolyte for lithium batteries
(2009) Journal of Power Sources, 194, 45 - 50.
57. D. Capsoni, M. Bini, V. Massarotti, P. Mustarelli, G. Chiodelli, C. B. Azzoni, M. C. Mozzati, L. Linati, S. Ferrari
Cations distribution and valence states in Mn-substituted $Li_4Ti_5O_{12}$ structure
(2008) Chemistry of Materials, 20, 4291- 4298.

Book Chapters

1.

Publisher	Woodhead Publishing Limited
Date	09 March 2018
Book Title	Polymer-based Nanocomposites for Energy and Environmental Applications
Editors	Mohammad Jawaid, Mohammad Mansoob Khan
Chapter 10:	*Polymer nanocomposites for lithium based batteries*
Authors	S. Ferrari, J.R. Nair, Y. Zhou, C. Wan
ISBN	9780081022627

2.

Publisher	Woodhead Publishing Limited
Date	01 May 2015
Book Title	Rechargeable lithium batteries: from fundamentals to applications
Editor	Alejandro A. Franco
Chapter 1:	*Rechargeable lithium batteries: major scientific and technological challenges*
Authors	M. Bini, D. Capsoni, S. Ferrari, E. Quartarone, P. Mustarelli
ISBN	9781782420989 electronic bk., 9781782420903

3.

Publisher	Wiley
Date	October 2015
Book Title	Carbon Nanomaterials for Advanced Energy Systems: Advances in Materials Syntheses and Device Applications
Editors	Wen Lu, Jong-Beom Baek, Liming Dai
Chapter 12:	*Lithium-air batteries based on carbon nanomaterials*
Authors	D. Capsoni, M. Bini, S. Ferrari, P. Mustarelli
ISBN	978-1-118-58078-3

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