

Curriculum Vitae

Name	<i>Sergio</i>
Family name	<i>Brutti</i>
Affiliation	<i>Università di Roma La Sapienza</i>
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Curriculum studiorum

	Anno		
University	2000	Università di Roma La Sapienza	Master Degree in Chemistry
PhD	2004	Università di Roma La Sapienza	PhD in Chemical Sciences

Academic appointments

Anno	Affiliazione	Ruolo
2003	University of Tokyo (Japan)	Visiting Scientist (during PhD) – 2 months
2004	University of Oxford (UK)	Visiting Scientist Fellowship
2005-2009	Università di Roma Tre/ Università di Roma La Sapienza	Post-doc
2009-2011	Università di Roma La Sapienza/ University of St Andrew-UK	Senior Post-doc
2011-2018	Università della Basilicata	Permanent Researcher
2018-2020	Università di Roma La Sapienza	Permanent Researcher
From 2020	Università di Roma La Sapienza	Associate Professor

Other appointments

Anno	Ruolo
2015	Visiting professor: Université d'Evry Val d'Essonne (Francia); Dr. Riccardo Spezia; LAMBE-CNRS
2017	Visiting professor: Chalmers University of Technology; Prof. Aleksandar Matic;
2019-2021	Editorial board member "Crystal" (MDPI; IF 2.4) and "Nanomaterial" (MDPI; IF 4.4)
2004-2020	Member of the Italian Society of Chemistry (SCI) 2016-2018 member of the board of the section Basilicata Dal 2019 al 2024 member of the board of the division Chimica Fisica
2020-2022	Member of the GISEL association (Electrochemical Energy storage Italian Cluster) and member of the board

Principal investigator in National or International Project (PI)

Year	Title	Program/Sponsor
2012-2017	Hydrides as high capacity anodes for Li-ion batteries	FIRB Futuro in Ricerca 2010 (MIUR)
2013-2015	Synthesis of a composite material based on LiCoPO ₄ and its application innovative secondary lithium cells	Area Science Park/Basilicata Innovazione (POFESR)
2014-2015	Performances and failure analysis of a Na-ion cell	Area Science Park/Basilicata Innovazione (POFESR)
2015	Assessment of the conditioning cycle of a Na-ion cell	Area Science Park/Basilicata Innovazione (POFESR)
2015-2017	Characterization of full Li-ion cells and analysis of via-gas phase degradation mechanisms	SAES Getters Spa – Research Contract (private sponsor)

Year	Title	Program/Sponsor
2017-2018	PAR2017	ENEA-MISE
2018	PAR2018	ENEA-MISE
2019-2021	AdP 2019-2021 Ricerca di Sistema Elettrico	ENEA-MISE
2020-2022	Medie Attrezzature 2019 “microFTIR”	Università di Roma La Sapienza
2021-2023	Ateneo 2020 “IDEMA”	Università di Roma La Sapienza
2022-2024	Ateneo 2021 “CIRCE”	Università di Roma La Sapienza
2021-2023	MCSA-REALSEI	H2020
2021-2023	Lazioinnova-ACTEA	Regione Lazio
2022-2025	SIGNE	Horizon Europe - EU
2022-2025	OptMetBat	EMPIR - EU
2009-2019	Several (6) high-performance computational resource grants	CASPUR-CINECA-ISCRA-CRESCO
2009-2022	Several (12) synchrotron radiation research beamtime projects (MCX and XAFS beamlines)	ELETTRA-CERIC

Bibliometric records

Tipologia di prodotto editoriale	N°	Database	Dal	Al
Pubblicazioni (internazionali) ISI (totale)	131	Scopus & (*)	2001	2022
Pubblicazioni (internazionali) non-ISI	1	(*)	2017	2017
Atti di congresso	5	(*)	2003	2015
Capitoli di libri	2	(*)	2013	2019
Indice Hirsch (H)	31	Citation retrieved from Scopus (29 July 2021); Average Citation per Product and Average Impact Factor calculated in respect to the number of products quoted in the Scopus Database (i.e. 109); (*) personal database. The complete list of publication is provided separately		
Citazioni	3020			
Mean number of citation for publication	23.05			

Selected publications:

1. Y.K.Petit, ..., S.Brutti, O.Fontaine and S.A. Freunberger. Mechanism of mediated alkali peroxide oxidation and triplet versus singlet oxygen formation. *Nature Chemistry* 13 (2021) 465-471
2. S.Ferrari, M.Falco, A.B.Munoz Garcia, M.Bonomo, S.Brutti, M.Pavone, C.Gerbaldi. Solid-State Post Li Metal Ion Batteries: A Sustainable Forthcoming Reality? *Advanced Energy Materials* (2021) 10.1002/aenm.202100785
3. L.Stievano, I. de Meazza, J.Bitenc, S.Brutti, M.A.Navarra. Emerging calcium batteries. *Journal of Power Sources* 482 (2021) 228875
4. A.B.Munoz-Garcia, B.Tirri, I.Capone, A.Matic, M.Pavone, S.Brutti. Structural evolution of disordered $\text{LiCo}_{1/3}\text{Fe}_{1/3}\text{Mn}_{1/3}\text{PO}_4$ in lithium batteries uncovered. *Journal of Materials Chemistry A* 8 (2020) 19641
5. E.Mourad, ..., S.Brutti, S.Freunberger. Singlet oxygen from cation driven superoxide disproportionation and consequences for aprotic metal- O_2 batteries. *Energy Environmental Science*, 12 (2019) 2559

Roma, 01 december 2022

Dr. Sergio Brutti

