

INFORMAZIONI ANAGRAFICHE

Luogo e data di nascita: **Bologna, 17/02/1970**. Nazionalità: **italiana**. Stato civile: **coniugato, due figli**
 Researcher ID: **H-4450-2011**. ORCID: **0000-0003-2546-9801**. Sito web: unibo.it/sitoweb/alberto.credi

TITOLI DI STUDIO, ESPERIENZE PROFESSIONALI E CARRIERA ACCADEMICA

Da 1/2016 Professore ordinario di Chimica Generale ed Inorganica, Dipartimento di Scienze e Tecnologie Agro-alimentari (2016-2019) e Dipartimento di Chimica Industriale "Toso Montanari" (2019-), Alma Mater Studiorum - Università di Bologna (UniBo).
 Da 10/2016 Associato con incarico di ricerca, ISOF-CNR, Bologna.
 2005–2015 Professore associato, Dipartimento di Chimica "G. Ciamician", UniBo; confermato nel 2008.
 1999–2005 Ricercatore universitario, Dipartimento di Chimica "G. Ciamician", UniBo; confermato nel 2002.
 4–9/1999 Funzionario tecnico a tempo determinato, UniBo.
 1995–1999 Dottorato di ricerca in Scienze Chimiche, UniBo.
 6–11/1995 Borsa NATO Supramolecular Chemistry, University of Virginia, Charlottesville, USA.
 1994–1995 Borsa Ciba-Geigy, Dipartimento di Chimica "G. Ciamician", UniBo.
 1994 Laurea in Chimica con lode, UniBo.

PRINCIPALI INCARICHI DIDATTICI ALL'UNIVERSITÀ DI BOLOGNA

Dal 2016 Corso di Chimica Generale ed Inorganica, laurea in Tecnologie Agrarie.
 2008–2022 Corso di Nanotecnologia Molecolare, laurea magistrale in Fotochimica e Materiali Molecolari.
 2008–2015 Corso di Chimica Generale ed Inorganica, laurea in Biotecnologie.
 2003–2015 Corso di Chimica, laurea in Astronomia.
 Dal 2002 Modulo di Complementi di Chimica Inorganica, scuola di dottorato in Scienze Chimiche.

PRINCIPALI INCARICHI DIDATTICI IN ALTRI ISTITUTI DI ALTA FORMAZIONE

2012 Modulo nel corso di Nanodispositivi Molecolari, Scuola Superiore di Catania.
 2004–2009 Corso di Macchine Supramolecolari, International Master in Nanotechnologies, Consorzio CIVeN.

SUPERVISIONE DI LAUREANDI, STUDENTI DI DOTTORATO, GIOVANI RICERCATORI E POST-DOC

>30 tesi di laurea triennale/magistrale, 18 tesi di dottorato e >20 assegnisti/post-doc per oltre 45 anni-persona a UniBo. 3 scienziati stranieri hanno visitato il laboratorio per un periodo superiore a 3 mesi con finanziamenti propri.

PRINCIPALI INCARICHI ISTITUZIONALI ALL'UNIVERSITÀ DI BOLOGNA

2021–2024 Prorettore per la Ricerca.
 Dal 2017 Direttore del Center for Light Activated Nanostructures, laboratorio congiunto fra UniBo e CNR.
 Dal 2017 Membro del collegio dei docenti del corso di dottorato in Nanoscienze per la Medicina e l'Ambiente.
 2010–2012 Componente della Giunta del Dipartimento di Chimica "G. Ciamician".
 2007–2012 Membro del collegio dei docenti del corso di dottorato in Scienze Chimiche.

COMITATI SCIENTIFICI/ORGANIZZATORI DI CONFERENZE

>40 Conferenze, fra cui: Mach-5, Bertinoro, 2024 (chair); International Conference on Coordination Compounds, 2020/18; Congresso Nazionale di Chimica Inorganica, 2019/18(chair)/16/15; Italian Photochemistry Meeting, 2019/17/16/15/14/12/08; Materials.it, Bologna, 2018; 7th EuCheMS Congress, Liverpool, 2018; 3rd Telluride Conference on Molecular Rotors, Motors and Switches, 2018 (chair); 8th International Symposium on Photochromism, 2019/16; Faraday Discussion on Supramolecular Photochemistry, 2015; International Symposium 'The Photochemistry of the Future-100 years later', Bologna, 2012, 4th EuCheMS Chemistry Congress, Praga, 2012; XXIV IUPAC Symposium on Photochemistry, Coimbra, 2012; International Conference on Molecular Sensors and Molecular Logic Gates, 2014-20; Corso Nazionale di Introduzione alla Fotochimica, Bologna, 2004/07/10/13/16/19; International Conference on Molecular Electronics, Grenoble, 2006/08/10/12/14/16/20.

COMMISSIONI DI VALUTAZIONE E COMITATI EDITORIALI

Principali incarichi nella valutazione di progetti: Ministero dell'Istruzione Università e Ricerca (SIR, PRIN, VQR), European Research Council (AdG, SyG, StG, CoG), FP7 ICT-FET Program, ESF Eurocores Program, Leverhulme Trust, International Center for Frontier Research in Chemistry (Strasbourg), Science Foundation Ireland, Royal Society of New Zealand, Netherlands Organization for Scientific Research, Israel Science Foundation, Swiss National Science Foundation, Petroleum Research Fund-American Chemical Society, Agence Nationale de la Recherche, Université Franco-Italienne, Università di Padova.

Commissioni di concorso: ASN 03/B1 (2021-23); >20 procedure valutative in università italiane e al CNR; tenure track positions, Technical University of Tampere, Finlandia (2014); Premio "Gian Piero Spada", dottorato in Chimica, Bologna (2014); Admission to membership, Third World Academy of Science (2013); European Young Chemist Award (2012). Componente di >10 PhD examination boards in Italia e all'estero dal 2007.

Comitati editoriali: Australian Journal of Chemistry (dal 2013), European Journal of Inorganic Chemistry (dal 2009–17), Polyhedron (2011–12), ChemPhotoChem (dal 2016), ChemistryOpen (2017–25), Chem.SystemsChem (2019–22). *Revisore:* attività regolare per tutte le principali riviste di Chimica/Scienza dei materiali/Nanoscienze.

PRINCIPALI RICONOSCIMENTI E PREMI

- 2023 Premio Lamberto Malatesta, Società Chimica Italiana
2022 Holger Erdtman Lecture, Royal Institute of Technology, Sweden
2021 SCF French-Italian Prize, Société Chimique de France
2021 The Netherlands Scholar Award for Supramolecular Chemistry
2019 Riccardo Ferro Lectureship, Università di Genova
2016 Enrico Santoro award, Accademia Nazionale dei Lincei, Roma
2008 Raffaello Nasini award, Italian Chemical Society. *Assegnato ogni anno al miglior ricercatore italiano indipendente under 40 nel settore della Chimica Inorganica*
2007 Grammaticakis-Neumann international award for Photochemistry, Swiss Chemical Society. *Assegnato ogni anno ad uno scienziato under 40 per eccellente attività di ricerca indipendente nella fotochimica, fotofisica o fotobiologia molecolare*
2002 Vincenzo Caglioti International Award in Chemistry, Accademia Nazionale dei Lincei, Roma. *Assegnato ogni tre anni ad un ricercatore eccellente under 35 in qualsiasi settore della Chimica*
2000 IUPAC Prize for Young Chemists. *Assegnato ogni anno al miglior lavoro di dottorato sul piano internazionale*
1999 Premio per la miglior tesi di dottorato in Chimica Inorganica, Società Chimica Italiana

ATTIVITÀ EDITORIALE

Curatore: Electrochemistry of Functional Supramolecular Systems, Wiley, Hoboken, 2010, 613 pp.

Guest Editor di riviste: Top. Curr. Chem. (numero su Semiconductor Quantum Dots, 2017); Chem. Comm. (numero su Molecular Logic Gates and Information Processing, 2015); Top. Curr. Chem. (numero su Molecular Machines, 2014); Chem. Soc. Rev. (numero su Photochemistry of Supramolecular Systems and Nanostructured Assemblies, 2014); Aust. J. Chem. (numeri su Dendrimers, 2011; Supramolecular Polymers, 2010; Molecular Logic, 2010), Adv. Funct. Mater. (numero su Molecular Switches, 2007).

SOCIETÀ E FONDAZIONI SCIENTIFICHE: APPARTENENZA E RUOLI DIRETTIVI

- Dal 2014 Consigliere di amministrazione, Fondation de la Maison de la Chimie, Paris, France
2025–2029 Membro del collegio di indirizzo, Fondazione Cassa di Risparmio in Bologna.
2022–2025 Consigliere di amministrazione, Fondazione Heal Italia, Palermo.
2018–2022 Membro del comitato esecutivo, European Photochemistry Association.
2017–2019 Componente della Commissione Relazioni Internazionali, Società Chimica Italiana.
2015–2020 Presidente del Gruppo Italiano di Fotochimica.
2015–2020 Membro del consiglio direttivo e tesoriere, Divisione Chimica Inorganica, Società Chimica Italiana.
2009–2014 Membro del consiglio direttivo, Gruppo Italiano di Fotochimica
Socio: European Academy of Sciences (Fellow), Royal Society of Chemistry (Fellow), Italian Chemical Society, American Chemical Society, European Photochemistry Association, American Nano Society.

CONFERENZE E SEMINARI SU INVITO

120 conferenze su invito a convegni/scuole nazionali/internazionali, fra cui le seguenti plenarie/keynote: 8th EuCheMS Congress, 2022; Central European Conference on Photochemistry, 2020; 14th ISMSC, 2019; 8th International Conference on Molecular Electronics, 2018; 2nd Caparica Christmas Conference on Translational Chemistry, Lisbon, 2017; Austrian Chemistry Days, Innsbruck, 2015; 21st ISPPCC, Krakow, 2015; Beilstein Nanotechnology Symposium, Potsdam, 2014; ISACS'10, Kyoto, 2013; Congresso Nazionale di Chimica Supramolecolare, Perugia, 2011; International Workshop on Molecular Logic, Leiden, 2011; Congresso della Società Chimica Italiana, Sorrento, 2009; 21st Solvay Conference in Chemistry, Bruxelles, 2007; Fall Meeting of the Swiss Chemical Society, 2007; CERC3 Young Chemists Workshop, Baden Baden, 2005. 70 seminari su invito in Università e istituti di ricerca in Italia e all'estero. 30 conferenze divulgative su invito.

PUBBLICAZIONI SCIENTIFICHE

Monografie: 1) Molecular Devices and Machines – A Journey into the Nano World, Wiley-VCH, 2003; tradotto in cinese e giapponese. 2) Handbook of Photochemistry, CRC, 2006. 3) Molecular Devices and Machines – Concepts and Perspectives for the Nanoworld, Wiley-VCH, 2008; tradotto in cinese. 4) Le Macchine Molecolari, 1088press, 2018. 5) Molecular machines, 1088press, 2020. 6) Viaggio nella chimica (libro di testo), Edises, 2023. *Pubblicazioni:* 266 articoli in ISI (333 con articoli non ISI e capitoli di libri) e 1 brevetto. Citazioni (Google Scholar): 33000. *h* = 78. Elenco completo: centri.unibo.it/clan/en/publications

PRINCIPALI COLLABORAZIONI SCIENTIFICHE

M. Garavelli (Univ. Bologna; fotochimica computazionale), M. Lucarini (Univ. Bologna; spettroscopia EPR), M. Cavallini (CNR Bologna; scienza delle superfici), A. Arduini, A. Secchi (Univ. Parma; sintesi organica), E. Fois (Univ. Insubria; molecular modelling), L. Persano (CNR Pisa; nanomateriali), S. Diez (Univ. Dresden; microscopia), N. Giuseppone (Univ. Strasbourg; chimica dei polimeri).

1994-2000

Fin dall'inizio della sua carriera scientifica, Alberto Credi ha focalizzato la propria ricerca sullo studio delle proprietà fotochimiche e redox di specie molecolari e supramolecolari, in collaborazione con importanti gruppi di ricerca internazionali, come quello del Prof. Jean-Marie Lehn (*JACS* **1994**, *116*, 5741). Grazie a una borsa di studio NATO, ha svolto ricerche nel laboratorio del Prof. Fred Richardson (Università della Virginia, USA) sulle proprietà chiro-ottiche di complessi metallici, riportando per la prima volta le proprietà di luminescenza a polarizzazione circolare di un complesso chirale di polipiridina di osmio (*Inorg. Chem.* **1997**, *36*, 426).

Durante il dottorato di ricerca, sotto la supervisione del Prof. Vincenzo Balzani, ha studiato diverse famiglie di rotassani, catenani e specie correlate, principalmente in collaborazione con il gruppo del Prof. Fraser Stoddart (all'epoca presso l'Università di Birmingham, Regno Unito, e successivamente presso l'Università della California, Los Angeles). Questi studi hanno portato a risultati di rilievo, come il primo esempio di implementazione della funzione logica XOR con un sistema chimico artificiale (*JACS* **1997**, *119*, 2679), composti dendritici interbloccati (*JACS* **1996**, *118*, 12012), sistemi antenna luminescenti (*JACS* **1999**, *121*, 6290) e numerosi esempi di macchine molecolari basate su rotassani (e.g.: *CEJ* **1997**, *3*, 152; **2000**, *6*, 3558; *JACS* **1998**, *120*, 11932) e catenani (*JACS* **1995**, *117*, 11171; **2000**, *122*, 3542; *ACIE* **1998**, *37*, 333; *JOC* **2000**, *65*, 1924). Il Prof. Credi ha anche avuto un ruolo di primo piano nella comprensione delle proprietà chimico-fisiche di catenani complessi (*JACS* **1998**, *120*, 4295) e nello sviluppo di sistemi molecolari presa-spina (*CEJ* **1999**, *5*, 984) e interruttori tripolari (*CEJ* **1997**, *3*, 1992; *JACS* **1999**, *121*, 3951). È coautore del primo lavoro completo di rassegna sulle macchine molecolari artificiali (*ACIE* **2000**, *39*, 3348; 3000+ citations).

2001-2010

Il percorso del Prof. Credi verso l'indipendenza scientifica è avvenuto gradualmente, come accade di consueto nel sistema accademico italiano. Da un lato ha continuato a svolgere ricerche su specie supramolecolari funzionali per i movimenti molecolari e l'elaborazione delle informazioni. I suoi risultati più significativi in questo campo sono gli "ascensori molecolari" (*Science* **2004**, *303*, 1845; *JACS* **2006**, *128*, 1489; featured in the poster of the Nobel Prize in Chemistry 2016), navette molecolari azionate dalla luce solare (*PNAS* **2006**, *103*, 1178; *ACIE* **2008**, *47*, 3536; *CEJ* **2010**, *16*, 11580), la prima nanomacchina basata sul trasferimento fotoindotto di protoni (*JACS* **2007**, *129*, 13378), prolunghie molecolari (*JACS* **2002**, *124*, 12786; *PNAS* **2006**, *103*, 18411; *JACS* **2007**, *129*, 4633), catenani e rotassani multistabili (*JACS* **2007**, *129*, 12159; **2010**, *132*, 1110) e depositati su superfici (*Adv. Mater.* **2006**, *18*, 1291), sistemi *host-guest* basati su cavitandi e calixareni (*JOC* **2004**, *69*, 5881; *Chem. Eur. J.* **2008**, *14*, 98; **2008**, *14*, 8694; **2009**, *15*, 3230), nuovi composti fotocromici (*CEJ* **2004**, *10*, 2011; *JACS* **2007**, *129*, 3198), e circuiti chimici logici (*CEJ* **2008**, *14*, 26; **2009**, *15*, 178; *J. Phys. Chem. C* **2010**, *114*, 3209), fra cui il primo caso di multiplexer/demultiplexer unimolecolare (*ACIE* **2008**, *47*, 6240).

D'altro canto, Alberto Credi ha sfruttato la sua esperienza nella fotochimica ed elettrochimica supramolecolare per approfondire problematiche di ricerca che vanno oltre i suoi interessi tradizionali. Tra queste, le proprietà redox e spettroscopiche di nanocristalli semiconduttori funzionalizzati, con il duplice obiettivo di comprendere l'effetto della funzionalizzazione superficiale sulle proprietà fisico-chimiche delle particelle. (*J. Phys. Chem. C* **2010**, *114*, 7007; *ChemPhysChem* **2011**, *12*, 2280) e la loro interazione con specie (supra)molecolari (*J. Mater. Chem.* **2008**, *18*, 2022; *Dalton Trans.* **2011**, *40* 12083) per fini sensoristici (*Chem. Commun.* **2011**, *47*, 325).

2011-oggi

Negli ultimi anni, il Prof. Credi si è concentrato principalmente su sistemi molecolari in grado di utilizzare l'energia luminosa per eseguire movimenti direzionali e funzionare in maniera autonoma in regimi di non equilibrio. L'integrazione fra fotocromismo e riconoscimento molecolare (*ACIE* **2012**, *51*, 1611; **2012**, *51*, 4223) ha consentito la realizzazione di pompe molecolari azionate dalla luce (*Nat. Nanotechnol.* **2015**, *10*, 70; *ACIE* **2019**, *58*, 14341). Questi studi rappresentano un importante passo avanti verso lo sviluppo razionale di sistemi chimici artificiali in grado di utilizzare la luce per operare al di fuori dell'equilibrio termico. Tale concetto è di grande interesse sia per il valore scientifico che per le potenziali applicazioni in vari campi della tecnologia e della medicina (ad esempio, conversione dell'energia solare, materiali attivi per la robotica, fototerapia), come testimoniato da un Advanced Grant ERC ottenuto nel 2016. Il *design* molecolare robusto e modulare ha consentito lo sviluppo di sistemi di nuova generazione (*CEJ* **2021**, *27*, 11076; *JACS* **2021**, *143*, 10890; **2022**, *144*, 10180). Gli studi del Prof. Credi sulle proprietà strutturali e dinamiche di complessi infilati e di molecole interbloccate (*CEJ* **2012**, *18*, 16203; **2020**, *26*, 534, *JACS* **2014**, *136*, 14245; *Chem. Comm.* **2015**, *51*, 2810; **2017**, *53*, 6172; **2023**, *59*, 13159) hanno prodotto risultati rivoluzionari in ambiti come l'autoselezione cinetica (*JACS* **2013**, *135*, 9924), la comunicazione intramolecolare per effetti allosterici (*PNAS* **2018**, *38*, 9385), l'infilamento/sfilamento molecolare di precisione (*ACIE* **2020**, *59*, 14825), il controllo chimico della chiralità meccanica planare (*JACS* **2019**, *141*, 9129), il disallineamento di anelli e stazioni (*JACS* **2021**, *143*, 8046), l'isomeria sequenziale (*Chem. Sci.* **2021**, *12*, 6419) e l'isomerizzazione *E-Z* (*Chem* **2021**, *7*,

2137) in rotassani, e navette molecolari multistato-multifunzione (*ACIE* **2025**, *64*, e202414609). Recentemente la sua ricerca si è sempre più focalizzata sullo studio di specie supramolecolari in grado di sfruttare la luce o altre forme di energia per funzionare lontano dall'equilibrio chimico (*Nat. Nanotechnol.* **2022**, *17*, 746; *ACIE* **2023**, *62*, e202214265; *Chem* **2024**, *10*, 3644; *Chem* **2025**, *11*, 102375; *Trends Chem.* **2025**, in press).

Ha altresì proseguito le sue ricerche su nanocristalli semiconduttori luminescenti (*Langmuir* **2013**, *29*, 13352; *Nanoscale* **2014**, *6*, 741; *J. Mater. Chem. C* **2014**, *2*, 2877), descrivendo un metodo per la funzionalizzazione superficiale e il controllo della solubilità (*Chem. Comm.* **2014**, *50*, 11020; Patent WO/2014/171245). Degno di nota è lo sviluppo di quantum dot con un elevato tempo di vita di luminescenza grazie al trasferimento reversibile di energia elettronica (*ACIE* **2018**, *57*, 3104). Sul fronte del fotocromismo (*Chem. Comm.* **2012**, *48*, 8652; **2015**, *51*, 13886; **2022**, *58*, 11236), l'estensione degli interessi del Prof. Credi allo stato solido ha portato allo sviluppo di cristalli molecolari porosi a base di azobenzene nei quali la luce controlla adsorbimento di gas e transizioni di fase (*Nat. Chem.* **2015**, *7*, 634; *PPS* **2019**, *18*, 2281). Sono stati condotti studi anche su single molecole (*ACIE* **2018**, *57*, 15034) e su film sottili (*JACS* **2018**, *140*, 12323; *J. Mater. Chem. C* **2022**, *10*, 10132). Altri risultati di punta sono la modulazione del fotocromismo mediante infilamento (*Chem. Sci.* **2019**, *10*, 5104) e incapsulamento (*JACS* **2020**, *142*, 14557) molecolari e l'utilizzo di fotocromi per controllare la regiochimica di bis-addotti fullerenici (*ACIE* **2021**, *59*, 14825). Il Prof. Credi si è anche interessato allo studio di interruttori e machine molecolari in membrane lipidiche (*CEJ* **2014**, *20*, 10737; *Langmuir* **2014**, *30*, 13667). Tutte queste attività di ricerca, che valorizzano la combinazione della spettroscopia e della fotochimica con la chimica supramolecolare, la scienza dei materiali e le nanoscienze, sono condotte nel Centro per le Nanostrutture Attivate dalla Luce (CLAN; centri.unibo.it/clan), un laboratorio di ricerca congiunto tra Università di Bologna e Consiglio Nazionale delle Ricerche fondato dal Prof. Credi nel 2017. La missione del CLAN, sotto la sua direzione scientifica, è quella di sviluppare sistemi, dispositivi e materiali molecolari e supramolecolari fotosensibili, nonché di promuovere la raccolta e la condivisione di risorse, strutture (spazi, attrezzature e servizi) e competenze per svolgere ricerca di frontiera nel campo delle scienze chimiche e fisiche. Il team del Prof. Credi comprende attualmente professori associati e ricercatori, assegnisti di ricerca, studenti di dottorato e tirocinanti universitari, per un totale che oscilla fra le 10 e le 20 persone.

Riconoscimento e diffusione

Alberto Credi ha pubblicato oltre 330 articoli scientifici e capitoli di libro, con un h-index di 78 e oltre 33.000 citazioni (Google Scholar). Le sue monografie su *Molecular Devices and Machines* (prima edizione 2003, seconda edizione 2008), scritte con V. Balzani e M. Venturi e pubblicate da Wiley-VCH, hanno ricevuto oltre 3.000 citazioni. *Handbook of Photochemistry*, terza edizione, scritta con M. Montalti, L. Prodi e M. T. Gandolfi e pubblicata da CRC nel 2006, ha ricevuto oltre 2.400 citazioni. Più recentemente, ha scritto insieme a V. Balzani un libro divulgativo sulle macchine molecolari (edizione italiana 2018, edizione inglese 2020), pubblicato in formato accesso aperto da 1088Press, la casa editrice dell'Università di Bologna. Il Prof. Credi ha curato due libri e sette raccolte tematiche e numeri di riviste, entrambi come guest editor.

Alberto Credi è autore o coautore di diverse recensioni e articoli di approfondimento su riviste di grande impatto, divenuti lavori di riferimento nel settore delle macchine e dei motori molecolari (*ACIE* **2000**, *39*, 3348; *Acc. Chem. Res.* **2001**, *34*, 445; *Chem. Soc. Rev.* **2009**, *38*, 1542; *Chem. Comm.* **2011**, *47*, 2483; *ChemistryOpen* **2018**, *7*, 169; *Chem. Rev.* **2020**, *120*, 200; *ACS Energy & Fuels* **2021**, *35*, 18900; *JACS Au* **2023**, *3*, 1301), logica molecolare (*ChemPhysChem* **2003**, *4*, 49; *ACIE* **2007**, *46*, 5472; *Coord. Chem. Rev.* **2021**, *428*, 213589), fotochimica supramolecolare (*ChemSusChem* **2008**, *1*, 26; *Chem. Soc. Rev.* **2014**, *43*, 4068; *Coord. Chem. Rev.* **2021**, *433*, 213758) e quantum dot semiconduttori (*Chem. Soc. Rev.* **2012**, *41*, 5728; **2015**, *44*, 4275; *ChemistryOpen* **2020**, *9*, 200).

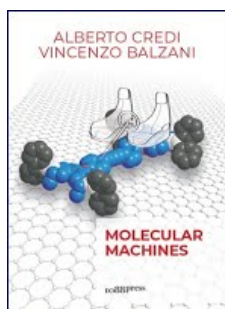
Il Prof. Credi ha ricevuto numerosi premi per i suoi risultati di ricerca ed è stato invitato come relatore a oltre 120 conferenze e scuole in tutto il mondo. Ha tenuto seminari su invito in oltre 70 università e istituti di ricerca. È inoltre impegnato nella divulgazione e divulgazione della scienza e della chimica, attraverso conferenze tenute in festival scientifici, eventi pubblici e scuole.

Cinque lavori più citati (escluse le rassegne):

1. A molecular elevator. *Science* **2004**, *303*, 1845. 1200+ citazioni.
2. An XOR gate based on a molecular machine. *JACS* **1997**, *119*, 2679. 640+ cit.
3. Autonomous artificial nanomotor powered by sunlight. *PNAS* **2006**, *103*, 1178. 570+ cit.
4. Acid-base controllable molecular shuttles. *JACS* **1998**, *120*, 11932. 460+ cit.
5. Light-powered autonomous motion [...] self-assembling system. *Nat. Nanotechnol.* **2015**, *10*, 70. 470+ cit.

Dati citazionali da Google Scholar aggiornati al 10 maggio 2025

Monografie



M5. Molecular machines

A. Credi, V. Balzani

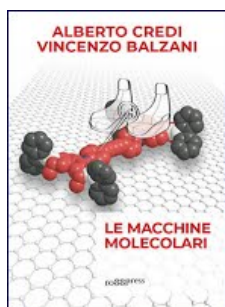
1088press, Bologna, Italy, **2020**, pp. 1-85

DOI: [10.12878/1088PRESSBIT2020_1](https://doi.org/10.12878/1088PRESSBIT2020_1)

ISBN: 9788869235597 (Tascabile)

ISBN: 9788831926195 (Pdf) ([Accesso aperto](#))

ISBN: 9788831926232 (Edizione html arricchita) ([Accesso aperto](#))



M4. Le macchine molecolari

A. Credi, V. Balzani

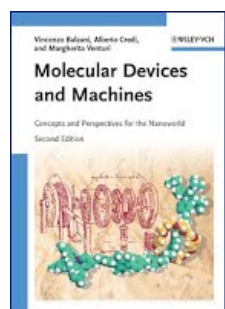
1088press, Bologna, Italy, **2018**, pp. 1-87

DOI: [10.12878/1088PRESSBIT2018_1](https://doi.org/10.12878/1088PRESSBIT2018_1)

ISBN: 9788869233425 (Tascabile)

ISBN: 9788831926027 (Pdf) ([Accesso aperto](#))

E-book disponibile nei principali formati



M3. Molecular devices and machines - Concepts and perspectives for the nano world

V. Balzani, A. Credi, M. Venturi

Wiley-VCH, Weinheim, Germany, **2008**, pp. 1-525

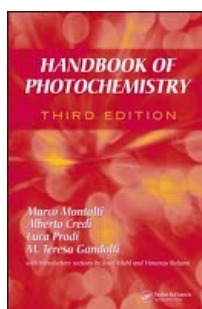
DOI: [10.1002/9783527621682](https://doi.org/10.1002/9783527621682)

ISBN: 9783527318001 (Copertina rigida)

ISBN: 9783527621682 (Versione online)

Recensioni: S. Loeve, *Revue de synthèse* **2009**, 130, 195.

Traduzioni: cinese



M2. Handbook of photochemistry, 3rd. Edition

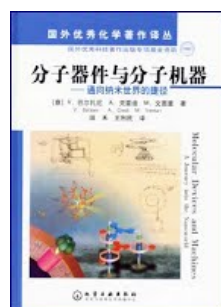
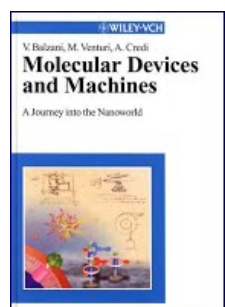
M. Montalti, A. Credi, L. Prodi, M. T. Gandolfi

CRC-Taylor & Francis, Boca Raton, USA, **2006**, pp. 1-650

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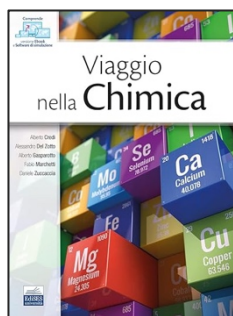
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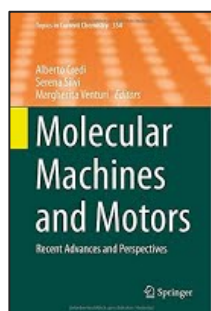
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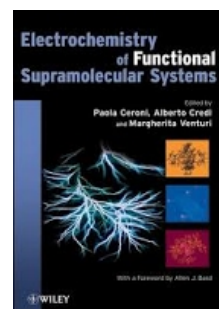
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Promotori: Università di Bologna, Italia, e Università di Basilea, Svizzera

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