

Premio Primo Levi



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Il Consiglio Direttivo del Gruppo Giovani bandisce la nuova edizione del **Premio Primo Levi**, da assegnare ad un giovane Socio SCI autore di una ricerca originale e di ampio interesse per le Scienze Chimiche, pubblicata su una rivista scientifica internazionale in versione finale nel periodo **01 gennaio – 31 dicembre 2024**.



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Vincitori:

Stefano Cinti (UniNA, Chimica Analitica)

Printed Electrochemical Strip for the Detection of miRNA-29a: A Possible Biomarker Related to Alzheimer's Disease
Analytical Chemistry 94(2022) 15558-15563 [5]

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Stefano Toso (IIT, Chimica Fisica)

Halide perovskites as disposable epitaxial templates for the phase-selective synthesis of lead sulfochloride nanocrystals
Nature Communications 13 (2022) 3976
[Video](#) | [Articolo](#)

Menzioni di merito:

Alberto Privitera (UniFI, Chimica per le Tecnologie)

Direct detection of spin polarization in photoinduced charge transfer through a chiral bridge
Chemical Sciences 13 (2022) 12208-12218
[Video](#) | [Articolo](#)

Sara Bracaglia (UniROMA2, Chimica Analitica)

Programmable Cell-Free Transcriptional Switches for Antibody Detection
JACS 144 (2022) 5820-5826
[Video](#) | [Articolo](#)

"The Most Popular Video" Juliette Bucci (UniROMA2, Chimica Analitica)

Orthogonal Enzyme-Driven Timers for DNA Strand Displacement Reactions
JACS 144 (2022) 19791-19798 [8]
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Vincitori:

Mario Prosa (CNR, Chimica Fisica)

Organic Light-Emitting Transistors in a Smart-Integrated System for Plasmonic-Based Sensing
Advanced Functional Materials 31(2021) 2104927 [11]

[Video](#) [6] | [Articolo](#) [7]

Demetra Giuri (UniBo, Chimica Organica)

Exploiting and controlling gel-to-crystal transitions in multicomponent supramolecular gels
Chemical Science 12 (2021) 9720
[Video](#) | [Articolo](#)

Menzioni di merito:

Laura Fabiani

(UniROMA2, Chimica Analitica)

Magnetic beads combined with carbon black-based screen-printed electrodes for COVID-19: A reliable and miniaturized electrochemical immunosensor for SARS-CoV-2 detection in saliva

Biosensors & Bioelectronics 171 (2021) 112686

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Paolo Cleto Bruzzese

(UniTO, Chimica Inorganica)

17O-EPR determination of the structure and dynamics of copper single-metal sites in zeolites

Nature Communications 21 (2021) 4638

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"The Most Popular Video" Matteo Savastano (UniFI, Chimica Inorganica)

Words in supramolecular chemistry: the ineffable advances of polyiodide chemistry
Dalton Transaction 50 (2021) 1142

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Vincitori:

Alberto Dal Corso (UniMI, Chimica Organica)

Fast Cyclization of a Proline-Derived Self-Immolative Spacer Improves the Efficacy of Carbamate Prodrugs

Angew. Chem. Int. Ed. 59 (2020) 4176-4181 [13]

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Jacopo Fregoni (UniMORE, Chimica Teorica e cOmputazionale)

Strong Coupling with Light Enhances the Photoisomerization Quantum Yield of Azobenzene

Chem 6 (2020) 250-265

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Menzioni di merito:

Alberto Bertucci (UniROMA2, Chimica Analitica)

Protein-Controlled Actuation of Dynamic Nucleic Acid Networks by Using Synthetic DNA Translators

Angew. Chem. Int. Ed. 59 (2020) 20577-20581

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Veronica Torresan (UniPd, Chimica Fisica)

4D Multimodal Nanomedicines Made of Nonequilibrium Au-Fe Alloy Nanoparticles

ACS Nano 14 (2020) 12840-12853

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"The Most Popular Video" Gianluigi Albano (UniPI, Chimica Organica)

Emergent Nonreciprocal Circularly Polarized Emission from an Organic Thin Film

Adv. Mater. 32 (2020) 2002575 [14]

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Vincitori:

Simona Ranallo (UniROMA2, Chimica Analitica)

Orthogonal regulation of DNA nanostructure self-assembly using antibodies

Nat. Comm. 10 (2019) art. no 5509

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Luca Capaldo (UniPV, Chimica Organica)

Visible light uranyl photocatalysis: direct C-H to C-C bond conversion

ACS Catal. 9 (2019) 3054-3058

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Menzioni di merito:

Stefano Corrà (UniBO, Chimica Inorganica)

Chemical on/off switching of mechanically planar chirality and chiral anion recognition in a [2]rotaxane molecular shuttle

J. Am. Chem. Soc. 141 (2019) 9129-9133

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Maria Del Carmen Marin Perez (UniSI, Chimica Teorica e Computazionale)

Fluorescence enhancement of a microbial via electronic reprogramming

J. Am. Chem. Soc. 141 (2019) 262-271

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"The Most Popular Video" Rosaria Bruno (UniCAL, Chimica Inorganica)

Multivariate metal-organic frameworks for the simultaneous capture of organic and inorganic contaminants from water

J. Am. Chem. Soc. 141 (2019) 13601-13609 [23]

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Vincitori:

Luka Đorđević (UniTS, Chimica dei Sistemi Biologici)

Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level

Nat. Comm. 9 (2018) art. no 3442

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Eleonora Macchia (UniBA, Chimica Analitica)

Single-molecule detection with a millimetre-sized transistor

Nat. Comm. 9 (2018) art. no. 3223

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Serena Bertoni (UniBO, Tecnologia Farmaceutica)

pH and reactive oxygen species-sequential responsive nano-in-micro composite for targeted therapy of inflammatory bowel disease

Adv. Func. Mater. 28 (2018) art no. 1806175 [30]

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Stefano Crespi (UniPV, Chimica Organica)

Tuning the thermal isomerization of phenylazoindole photoswitches from days to nanoseconds

J. Am. Chem. Soc. 140 (2018) 2940-2946 [33]

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"The Most Popular Video" Carla Rizzo (UniPA, Chimica Organica)

Nitrogen-doped carbon nanodots-ionogels: Preparation, characterization, and radical scavenging activity

ACS Nano 12 (2018) 1296-1305 [36]

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Vincitori:

Claudia Bonfio (UniTN, Chimica dei Sistemi Biologici)

UV-light-driven prebiotic synthesis of iron-sulfur clusters

Nat. Chem. 9 (2017) 1229-1234 [41]

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Daniele Martella (UniFI, Chimica Industriale)

Photonic microhand with autonomous action

Adv. Mater. 29 (2017) art. no. 1704047 [44]

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Menzioni di merito:

Riccardo Rigo (UniPV, Chimica Farmaceutica)

Conformational profiling of a G-rich sequence within the c-KIT promoter

Nucleic Acids Res. 45 (2017) 13056-13067 [47]

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Sergio Rossi (UniMI, Chimica Organica)

Stereoselective catalytic synthesis of active pharmaceutical ingredients in homemade 3D-printed mesoreactors

Angew. Chem. Int. Ed. 56 (2017) 4290-4294 [50]

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"The Most Popular Video" Francesco Tavanti (UniMORE, Chimica Teorica e Computazionale)

Site-selective surface-enhanced Raman detection of proteins

ACS Nano 11 (2017) 918-926 [53]

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Vincitori:

Alessia Amodio (UniROMA2, Chimica Analitica)

pH-controlled assembly of DNA tiles

J. Am. Chem. Soc. 138 (2016) 12735-12738 [59]

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Giovanni Valenti (UniBO, Elettrochimica)

Coaxial heterostructures integrating palladium/titanium dioxide with carbon nanotubes for efficient electrocatalytic hydrogen evolution

Nat. Commun. 7 (2016) 13549 [62]

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Menzioni di merito:

Francesca Arcudi (UniTS, Chimica dei Sistemi Biologici)

Synthesis, separation, and characterization of small and highly fluorescent nitrogen-doped carbon nanodots

Angew. Chem. Int. Ed. 55 (2016) 2107-2112 [65]

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Matteo Atzori (UniFI, Chimica Inorganica)

Quantum coherence times enhancement in vanadium(IV)-based potential molecular qubits: the key role of the vanadyl moiety

J. Am. Chem. Soc. 138 (2016) 11234-11244 [68]

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"The Most Popular Video"

Anna Laura Capriotti (UniROMA1, Chimica Analitica)

New magnetic graphitized carbon black TiO₂ composite for phosphopeptide selective enrichment in shotgun phosphoproteomics

Anal. Chem. 88 (2016) 12043-12050 [71]

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Vincitori:

Cristian Pezzato (UniPD e CNR-ISTM, Chimica Organica)

Transient signal generation in a self-assembled nanosystem fueled by ATP

Nat. Commun. 6 (2015) 7790

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Letizia Monico (UniPG, Chimica dell'Ambiente e dei Beni Culturali)

Evidence for degradation of the chrome yellows in Van Gogh's sunflowers: a study using noninvasive in situ methods and synchrotron-radiation-based X-ray techniques

Angew. Chem. Int. Ed. 54 (2015) 13923 [80]

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Menzioni di merito:

Giulio Ragazzon (UniBO, Chimica Inorganica)

Light-powered autonomous and directional molecular motion of a dissipative self-assembling system

Nat. Nanotechnol. 10 (2015) 70

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Chiara Samori (CIRI EA e UniBO, Chimica Organica)

Dimethyl carbonate and switchable anionic surfactants: two effective tools for the extraction of polyhydroxyalkanoates from microbial biomass

Green Chem. 17 (2015) 1047

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"The Most Popular Video"

Luca Catalano (Polimi, Chimica Fisica)

Dynamic characterization of crystalline supramolecular rotors assembled through halogen bonding

J. Am. Chem. Soc. 137 (2015) 15386 [87]

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Vincitori:

[Alessandra Campana](#) (CNR-ISMN, Chimica Fisica)

Electrocardiographic recording with conformable organic electrochemical transistor fabricated on resorbable bioscaffold

Adv. Mater. 26 (2014) 3874

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[Alessandro Minguzzi](#) (UniMI e INSTM, Elettrochimica)

Observing the oxidation state turnover in heterogeneous iridium-based water oxidation catalysts

Chem. Sci. 5 (2014) 3591

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Menzioni di merito:

[Andrea Idili](#) (UniROMA2, Chimica Analitica)

Programmable pH-triggered DNA nanoswitches

J. Am. Chem. Soc. 136 (2014) 5836

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[Alberto Ceccon](#) (UniVR, Chimica Organica)

Dynamics of a globular protein adsorbed to liposomal nanoparticles

J. Am. Chem. Soc. 136 (2014) 13158 [96]

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Vincitori:

[Francesco Pineider](#) (UniFI e CNR-ISTN, Chimica Inorganica)

Circular magnetoplasmonic modes in gold nanoparticles

Nano Lett. 13 (2013) 4785-4789 [101]

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[Alessandro Porchetta](#) (UniROMA2 e INBB, Chimica Analitica)

Allosterically tunable, DNA-based switches triggered by heavy metals

J. Am. Chem. Soc. 135 (2013) 13238-13241 [103]

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Menzioni di merito:

[Denis Gentili](#) (CNR-ISMN)

Logic-gate device based on printed polymer semiconducting nanostripes

Nano Lett. 13 (2013) 3643-3647 [105]

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[Ivan Carmimeo](#) (SNS e INFN)

Computational spectroscopy of large system in solution: the DFTB/PCM and TD-DFTB/PCM approach

J. Chem. Theor. Comput. 9 (2013) 2052-2071 [107]

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► Premio Levi 2012

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Vincitore:

Matteo Cargnello (CNR-ICCOM)

Exceptional activity for methane combustion over modular Pd@CeO₂ subunits on functionalized Al₂O₃

Science 337 (2012) 713-717 [112]

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Menzioni di merito:

Tommaso Avellini (UniBO)

Davide Ravelli (UniPV)

Alessandro Porchetta (UniROMA2)



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► Premio Levi 2010

Vincitrice:

Elisabetta Collini (UniPD, Chimica Fisica)

Coherently wired light-harvesting in photosynthetic marine algae at ambient temperature

Nature 463 (2010) 644-647 [116]

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