

Primo Levi Award

The Board of SCI Giovani launches the new edition of the **Primo Levi Award**, to be assigned to a young SCI member author of a research performed in Italy, original and of wide interest in the Chemical Sciences, published on an international scientific journal in its final version in the timespan **January 1 – December 31, 2019**.

 [Call for applications \(ITA\)](#) [1]

-- APPLICATIONS ARE NOW CLOSED --

THE FINALISTS

The SCI Giovani Board has granted 10 candidates access to the second evaluation step of the Primo Levi Award, which is being performed by a commission appointed on purpose with SCI members and Italian scientists working abroad.

Each finalist has produced a short video to show their work in a concise and original fashion.

Here the **10 finalists** of the Primo Levi Award 2019! Good luck to all of you!



Serena ARNABOLDI (UniMI)

Thiahelicene-based inherently chiral films for enantioselective electroanalysis

Chem. Sci. 10 (2019) 1539-1548

[Video \(ITA\)](#) [2] | [Article](#) [3]



Carlo BRAVIN (Univ. Cambridge)

A diastereodynamic probe transducing molecular length into chiroptical readout

J. Am. Chem. Soc. 141 (2019) 11963-11969

[Video \(ITA, subENG\)](#) [4] | [Article](#) [5]



Rosaria BRUNO (UniCAL)

Multivariate Metal–Organic Frameworks for the simultaneous capture of organic and inorganic contaminants from water

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

[Video \(ITA\)](#) [6] | [Article](#) [7]



Luca CAPALDO (UniPV)

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

ACS Catal. 9 (2019) 3054-3058

[Video \(ITA\)](#) [8] | [Article](#) [9]



Stefano CORRÀ (UniBO)

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

[Video \(ITA\)](#) [10] | [Article](#) [11]



Giuseppe DILAURO (UniBA)

Water and sodium chloride: Essential ingredients for robust and fast Pd-catalysed cross-coupling reactions between organolithium reagents and (hetero)aryl halides

Angew. Chem. Int. Ed. 58 (2019) 1799-1802

[Video \(ITA\)](#) [12] | [Article](#) [13]



Matteo LANZI (UniPR)

Visible-light-promoted polycyclizations of dienyynes

Angew. Chem. Int. Ed. 58 (2019) 6703-6707

[Video \(ITA\)](#) [14] | [Article](#) [15]



María Del Carmen MARÍN-PÉREZ (Unisi)

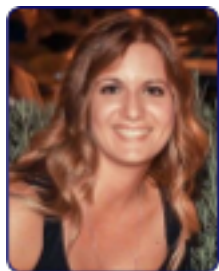
Fluorescence enhancement of a microbial rhodopsin via electronic reprogramming

Primo Levi Award

Published on Società Chimica Italiana (<https://www.soc.chim.it>)

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

[Video \(ITA\)](#) [16] | [Article](#) [17]



Simona RANALLO (UniROMA2)

Orthogonal regulation of DNA nanostructure self-assembly and disassembly using antibodies

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

[Video \(ITA\)](#) [18] | [Article](#) [19]



Vincenzo RUSSO (UniNA)

Self-activating catalyst for glucose hydrogenation in the aqueous phase under mild conditions

ACS Catal. 9 (2019) 3426-3436

[Video \(ITA\)](#) [20] | [Article](#) [21]

WALL OF FAME

► **Primo Levi Award 2018**

Winners:

[Luka Đorđević](#) (UniTS, Chemistry of Biological Chemistry)

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

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

[Video](#) [22] | [Article](#) [23]

[Eleonora Macchia](#) (UniBA, Analytical Chemistry)

Single-molecule detection with a millimetre-sized transistor

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

[Video](#) [24] | [Article](#) [25]

Honorable mentions:

[Serena Bertoni](#) (UniBO, Pharmaceutical Technology)

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

[Video](#) [26] | [Article](#) [27]

[Stefano Crespi](#) (UniPV, Organic Chemistry)

Tuning the thermal isomerization of phenylazindole photoswitches from days to nanoseconds

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

[Video](#) [28] | [Article](#) [29]

"The Most Popular Video"

[Carla Rizzo](#) (UniPA, Organic Chemistry)

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

ACS Nano 12 (2018) 1296-1305

[Video](#) [30] | [Article](#) [31]

Primo Levi Award

Published on Società Chimica Italiana (<https://www.soc.chim.it>)



[1] [List of finalists](#) [32] | [Call for Applications \(ITA\)](#) [33] | [Final report \(ITA\)](#) [34]

► Primo Levi Award 2017

Winners:

Claudia Bonfio (UniTN, Chemistry of Biological Systems)
UV-light-driven prebiotic synthesis of iron-sulfur clusters
Nat. Chem. 9 (2017) 1229-1234
[Video](#) [35] | [Article](#) [36]

Daniele Martella (UniFI, Industrial Chemistry)
Photonic microhand with autonomous action
Adv. Mater. 29 (2017) art. no. 1704047
[Video](#) [37] | [Article](#) [38]

Honorable mentions:

Riccardo Rigo (UniPV, Medicinal Chemistry)
Conformational profiling of a G-rich sequence within the c-KIT promoter
Nucleic Acids Res. 45 (2017) 13056-13067
[Video](#) [39] | [Article](#) [40]

Sergio Rossi (UniMI, Organic Chemistry)
Stereoselective catalytic synthesis of active pharmaceutical ingredients in homemade 3D-printed mesoreactors
Angew. Chem. Int. Ed. 56 (2017) 4290-4294
[Video](#) [41] | [Article](#) [42]

"The Most Popular Video" Francesco Tavanti (UniMORE, Theoretical and Computational Chemistry)
Site-selective surface-enhanced Raman detection of proteins
ACS Nano 11 (2017) 918-926
[Video](#) [43] | [Article](#) [44]



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► Primo Levi Award 2016

Winners:

Alessia Amodio (UniROMA2, Analytical Chemistry)
pH-controlled assembly of DNA tiles
J. Am. Chem. Soc. 138 (2016) 12735-12738
[Video](#) [48] | [Article](#) [49]

Giovanni Valentini (UniBO, Electrochemistry)
Coaxial heterostructures integrating palladium/titanium dioxide with carbon nanotubes for efficient electrocatalytic hydrogen evolution
Nat. Commun. 7 (2016) 13549
[Video](#) [50] | [Article](#) [51]

Honorable mentions:

Francesca Arcudi (UniTS, Chemistry of Biological Systems)
Synthesis, separation, and characterization of small and highly fluorescent nitrogen-doped carbon nanodots
Angew. Chem. Int. Ed. 55 (2016) 2107-2112
[Video](#) [52] | [Article](#) [53]

Matteo Atzori (UniFI, Inorganic Chemistry)
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

Primo Levi Award

Published on Società Chimica Italiana (<https://www.soc.chim.it>)

[Video \[54\]](#) | [Article \[55\]](#)

"The Most Popular Video"

Anna Laura Capriotti (UniROMA1, Analytical Chemistry)

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

Anal. Chem. 88 (2016) 12043-12050

[Video \[56\]](#) | [Article \[57\]](#)



[1] [\[1\] List of finalists \[58\]](#) | [Call for Applications \(ITA\) \[59\]](#) | [Final report \(ITA\) \[60\]](#)

► Primo Levi Award 2015

Winners:

Cristian Pezzato (UniPD e CNR-ISTM, Organic Chemistry)

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

Nat. Commun. 6 (2015) 7790

[Video \[61\]](#) | [Article \[62\]](#)

Letizia Monico (UniPG, Chemistry of the Environment and of Cultural Heritage)

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

[Video \[63\]](#) | [Article \[64\]](#)

Honorable mentions:

Giulio Ragazzon (UniBO, Inorganic Chemistry)

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

Nat. Nanotechnol. 10 (2015) 70

[Video \[65\]](#) | [Article \[66\]](#)

Chiara Samori (CIRI EA e UniBO, Organic Chemistry)

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

Green Chem. 17 (2015) 1047

[Video \[67\]](#) | [Article \[68\]](#)

"The Most Popular Video"

Luca Catalano (PoliMI, Physical Chemistry)

Dynamic characterization of crystalline supramolecular rotors assembled through halogen bonding

J. Am. Chem. Soc. 137 (2015) 15386

[Video \[69\]](#) | [Article \[70\]](#)



[1] [List of finalists \[71\]](#) | [Call for Applications \(ITA\) \[72\]](#) | [Final report \(ITA\) \[73\]](#)

► Primo Levi Award 2014

Winners:

Alessandra Campana (CNR-ISMN, Physical Chemistry)

Electrocardiographic recording with conformable organic electrochemical transistor fabricated on resorbable bioscaffold

Adv. Mater. 26 (2014) 3874

[Article \[74\]](#)

Alessandro Minguzzi (UniMI e INSTM, Electrochemistry)

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

Chem. Sci. 5 (2014) 3591

[Article \[75\]](#)

Primo Levi Award

Published on Società Chimica Italiana (<https://www.soc.chim.it>)

Honorable mentions:

[Andrea Idili](#) (UniROMA2, Analytical Chemistry)
Programmable pH-triggered DNA nanoswitches
J. Am. Chem. Soc. 136 (2014) 5836

[Article](#) [76]

[Alberto Ceccon](#) (UniVR, Organic Chemistry)
Dynamics of a globular protein adsorbed to liposomal nanoparticles
J. Am. Chem. Soc. 136 (2014) 13158

[Article](#) [77]



[1] [List of finalists](#) [78] | [Call for Applications \(ITA\)](#) [79] | [Final report \(ITA\)](#) [80]

► Primo Levi Award 2013

Vincitori:

[Francesco Pineider](#) (UniFI e CNR-ISTN, Inorganic Chemistry)
Circular magnetoplasmonic modes in gold nanoparticles
Nano Lett. 13 (2013) 4785-4789

[Article](#) [81]

[Alessandro Porchetta](#) (UniROMA2 e INBB, Analytical Chemistry)
Allosterically tunable, DNA-based switches triggered by heavy metals
J. Am. Chem. Soc. 135 (2013) 13238-13241

[Article](#) [82]

Honorable mentions:

[Denis Gentili](#) (CNR-ISMN)
Logic-gate device based on printed polymer semiconducting nanostripes
Nano Lett. 13 (2013) 3643-3647

[Article](#) [83]

[Ivan Carnimeo](#) (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

[Article](#) [84]



[1] [Call for Applications \(ITA\)](#) [85] | [Final report \(ITA\)](#) [86]

► Primo Levi Award 2012

Winner:

[Matteo Cargnello](#) (CNR-ICCOM)
Exceptional activity for methane combustion over modular Pd@CeO₂ subunits on functionalized Al₂O₃
Science 337 (2012) 713-717

[Article](#) [87]

Honorable mentions:

[Tommaso Avellini](#) (UniBO)

[Davide Ravelli](#) (UniPV)

[Alessandro Porchetta](#) (UniROMA2)



[1] [Call for Applications \(ITA\)](#) [88]

► **Primo Levi Award 2010**

Winner:

Elisabetta Collini (UniPD, Physical Chemistry)

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

Nature
463 (2010) 644-647

[Article](#) [89]

Source URL: https://www.soc.chim.it/en/sci_giovani/premi/levi

Links:

- [1] <https://www.soc.chim.it/sites/default/files/Bando Premio Primo Levi 2019.pdf>
 - [2] <http://youtu.be/--psKxE-16l>
 - [3] <https://bit.ly/SArnaboldi>
 - [4] <https://youtu.be/9RWiflyKEfQ>
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 - [6] <https://youtu.be/CM6PHvKJT2s>
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 - [8] <https://youtu.be/UjFr-5Uat7k>
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 - [57] <https://pubs.acs.org/doi/10.1021/acs.analchem.6b02345>
 - [58] https://www.soc.chim.it/en/sci_giovani/premi/levi/finalisti2016
 - [59] https://www.soc.chim.it/sites/default/files/Bando_Levi_2016.pdf
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