

# 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]

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**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 dienyne*s

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

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



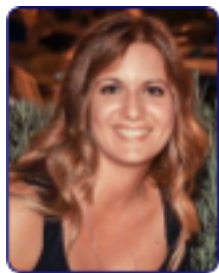
**María Del Carmen MARÍN-PÉREZ** (UniSI)

*Fluorescence enhancement of a microbial rhodopsin via electronic reprogramming*

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*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]

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## Primo Levi Award

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

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### ► 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 \[44\]](#)

 [\[1\] List of finalists \[45\]](#) | [Call for Applications \(ITA\) \[46\]](#) | [Final report \(ITA\) \[47\]](#)

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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

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

"The Most Popular Video" [Anna Laura Capriotti \(UniROMA1, Analytical Chemistry\)](#)

***New magnetic graphitized carbon black TiO<sub>2</sub> 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 \(ITA\) \[60\]](#)

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► **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 \[70\]](#)



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► **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 \[75\]](#)

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# Primo Levi Award

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

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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]

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► **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 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

[Article](#) [84]



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

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► **Primo Levi Award 2012**

Winner:

[Matteo Cargnello](#) (CNR-ICCOM)  
**Exceptional activity for methane combustion over modular Pd@CeO<sub>2</sub> subunits on functionalized Al<sub>2</sub>O<sub>3</sub>**  
*Science* 337 (2012) 713-717

[Article](#) [87]

Honorable mentions:

[Tommaso Avellini](#) (UniBO)

[Davide Ravelli](#) (UniPV)

[Alessandro Porchetta](#) (UniROMA2)

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

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► **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](https://www.soc.chim.it/en/sci_giovani/premi/levi)

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