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

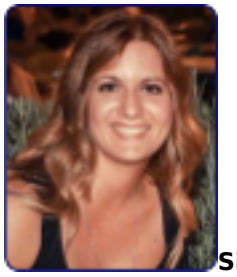
Angew. Chem. Int. Ed. 58 (2019) 1799-1802
Video (ITA) [12] | Article [13]

**Matteo LANZI** (UniPR)
Visible-light-promoted polycyclizations of dienynes

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

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, Analitical 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 phenylazoindole 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]**

[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]**

[1] List of finalists **[45]** | Call for Applications (ITA) **[46]** | FInal report (ITA) **[47]**

► **Primo Levi Award 2016**

Winners:

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

Giovanni Valenti **(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

Video **[54]** | Article **[55]**

"*The Most Popular Video*" Anna Laura Capriotti **(UniROMA1, Analitical Chemistry)**

New magnetic graphitized carbon black TiO_2 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 Samorì **(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]**

Honorable mentions:

Andrea Idili **(UniROMA2, Analitical 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, Analitical 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 $Pd@CeO_2$ subunits on fuctionalized Al_2O_3
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]**

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