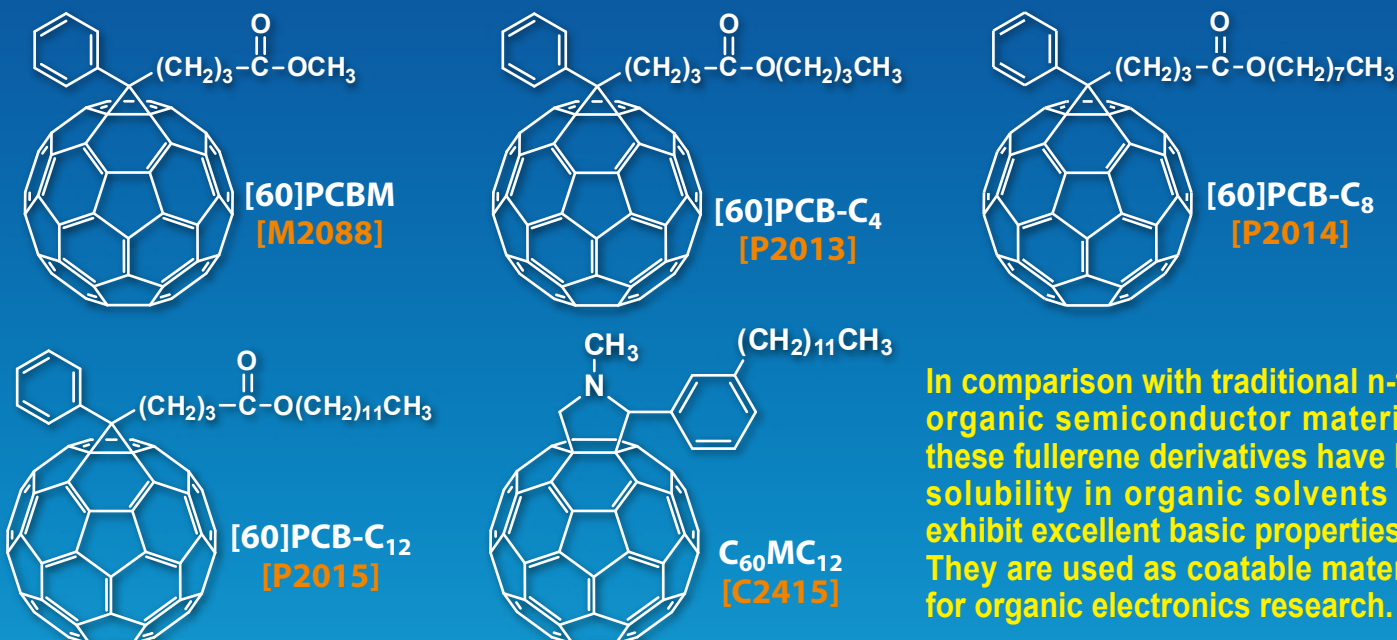


n-Type Semiconductor Materials Soluble Fullerene Derivatives



In comparison with traditional n-type organic semiconductor materials, these fullerene derivatives have high solubility in organic solvents and exhibit excellent basic properties. They are used as coatable materials for organic electronics research.

Applications

Organic Photovoltaic Cell (OPV)

[M2088] *Appl. Phys. Lett.* **2001**, 79, 2996; *Nat. Mater.* **2005**, 4, 864.

[P2013] *Solar Ener. Mater. Solar Cells*, **2008**, 92, 397; *J. Phys. Chem. B*, **2004**, 108, 11921.

[P2014] *Solar Ener. Mater. Solar Cells*, **2010**, 94, 537; *J. Phys. Chem. B*, **2004**, 108, 11921.

[P2015] *Synth. Metals* **2003**, 135, 827; *J. Phys. Chem. B*, **2004**, 108, 11921.

Organic Field-Effect Transistor (OFET)

[M2088] *Appl. Phys. Lett.* **2004**, 85, 4205; *Synth. Metals*, **2008**, 158, 468.

[C2415] *Appl. Phys. Express* **2010**, 3, 101601; *Appl. Phys. Lett.* **2005**, 87, 203504.

Organic Light-Emitting Diode (OLED)

[M2088] *J. Phys. Chem. C*, **2009**, 113, 14500; *Macromolecules*, **2006**, 39, 177.

[6,6]-Phenyl-C₆₁-butyric Acid Methyl Ester (= [60]PCBM)	100mg [M2088]
[6,6]-Phenyl-C₆₁-butyric Acid Butyl Ester (= [60]PCB-C₄)	100mg [P2013]
[6,6]-Phenyl-C₆₁-butyric Acid <i>n</i>-Octyl Ester (= [60]PCB-C₈)	100mg [P2014]
[6,6]-Phenyl-C₆₁-butyric Acid Dodecyl Ester (= [60]PCB-C₁₂)	100mg [P2015]
C₆₀-fused <i>N</i>-Methylpyrrolidine-<i>m</i>-C₁₂-phenyl (= C₆₀MC₁₂)	100mg [C2415]

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