

# Oliver Jost

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

1,501  
citations

19  
h-index

38  
g-index

41  
ext. papers

1,582  
ext. citations

3.9  
avg, IF

3.46  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 35 | Ultrafast carrier dynamics in single-wall carbon nanotubes. <i>Physical Review Letters</i> , <b>2003</b> , 90, 057404   | 7.4  | 288       |
| 34 | Diameter grouping in bulk samples of single-walled carbon nanotubes from optical absorption spectroscopy. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2217-2219                                | 3.4  | 176       |
| 33 | Solid-Liquid-Solid growth mechanism of single-wall carbon nanotubes. <i>Carbon</i> , <b>2002</b> , 40, 113-118  | 10.4 | 141       |
| 32 | Chemical optimization of self-assembled carbon nanotube transistors. <i>Nano Letters</i> , <b>2005</b> , 5, 451-5   | 11.5 | 117       |
| 31 | Novel catalysts, room temperature, and the importance of oxygen for the synthesis of single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2005</b> , 5, 1209-15                                   | 11.5 | 116       |
| 30 | Reduced diameter distribution of single-wall carbon nanotubes by selective oxidation. <i>Chemical Physics Letters</i> , <b>2002</b> , 363, 567-572  | 2.5  | 80        |
| 29 | Catalyst volume to surface area constraints for nucleating carbon nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8234-41  | 3.4  | 55        |
| 28 | Isotope-Engineered Single-Wall Carbon Nanotubes; A Key Material for Magnetic Studies. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4094-4098   | 3.8  | 48        |
| 27 | Rate-Limiting Processes in the Formation of Single-Wall Carbon Nanotubes: Pointing the Way to the Nanotube Formation Mechanism. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 2875-2883 | 3.4  | 47        |
| 26 | Gas-dynamic consideration of the laser evaporation synthesis of single-wall carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S593-S596                | 2.6  | 46        |
| 25 | Third-order optical nonlinearities of carbon nanotubes in the femtosecond regime. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3572-3574  | 3.4  | 42        |
| 24 | Role of the catalyst particle size in the synthesis of single-wall carbon nanotubes. <i>Applied Surface Science</i> , <b>2002</b> , 197-198, 563-567  | 6.7  | 40        |
| 23 | Impact of catalyst coarsening on the formation of single-wall carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2001</b> , 339, 297-304  | 2.5  | 34        |
| 22 | Carbon nanotube transistor optimization by chemical control of the nanotube-metal interface. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5106-5108   | 3.4  | 33        |
| 21 | Catalyst size dependencies for carbon nanotube synthesis. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 3911-3915   | 1.3  | 32        |
| 20 | Bandgap photoluminescence of semiconducting single-wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 1057-1060                                  | 3    | 26        |
| 19 | High-yield synthesis of single-walled carbon nanotubes with a pulsed arc-discharge technique. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 3907-3910                         | 1.3  | 21        |

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|----|---|------|----|
| 18 | Ambient effects on the electrical conductivity of carbon nanotubes. <i>Carbon</i> , <b>2015</b> , 95, 347-353   | 10.4 | 20 |
| 17 | Single-walled carbon nanotube diameter. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 433-40  | 1.3  | 19 |
| 16 | Novel catalysts for low temperature synthesis of single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3101-3105  | 1.3  | 18 |
| 15 | Optical absorption spectroscopy and properties of single walled carbon nanotubes at high temperature. <i>Synthetic Metals</i> , <b>2014</b> , 197, 182-187  | 3.6  | 15 |
| 14 | Improved sorting of carbon nanotubes according to electronic type by density gradient ultracentrifugation. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2687-2690                          | 1.3  | 13 |
| 13 | Selective laser treatment and laser patterning of metallic and semiconducting nanotubes in single walled carbon nanotube films. <i>Diamond and Related Materials</i> , <b>2014</b> , 45, 70-75                      | 3.5  | 11 |
| 12 | Ultrafast pump-probe measurements in single wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 380-383   | 3    | 11 |
| 11 | Multi-component catalysts for the synthesis of SWCNT. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 2511-2513   | 1.3  | 9  |
| 10 | Properties of sputter and Sol-Gel deposited PZT thin films for sensor and actuator applications: Preparation, stress and space charge distribution, self poling. <i>Ferroelectrics</i> , <b>1999</b> , 230, 109-114 | 0.6  | 8  |
| 9  | Full Polymer Dielectric Elastomeric Actuators (DEA) Functionalised with Carbon Nanotubes and High-K Ceramics. <i>Micromachines</i> , <b>2016</b> , 7,   | 3.3  | 7  |
| 8  | Purification and dispersion of carbon nanotubes by sidewall functionalization with single-stranded DNA. <i>AIP Conference Proceedings</i> , <b>2004</b> ,   | 0    | 6  |
| 7  | Separation and Assembly of DNA-dispersed Carbon Nanotubes by Dielectrophoresis. <i>AIP Conference Proceedings</i> , <b>2005</b> ,   | 0    | 6  |
| 6  | Synthesis of single wall carbon nanotubes with defined <sup>13</sup> C content. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3050-3053   | 1.3  | 4  |
| 5  | Photocreated carrier dynamics in isolated carbon nanotubes. <i>Semiconductor Science and Technology</i> , <b>2004</b> , 19, S486-S488   | 1.8  | 4  |
| 4  | High yield non destructive purification of single wall carbon nanotubes monitored by EPR measurements   |      | 3  |
| 3  | The spectroscopic investigation of the optical and electronic properties of SWCNT. <i>AIP Conference Proceedings</i> , <b>2000</b> ,  | 0    | 3  |
| 2  | Laser Ablation Synthesis of Single-Wall Carbon Nanotubes: The SLS Model <b>2006</b> , 611-632   |      | 1  |
| 1  | Mechanism of carbon nanotube synthesis by laser ablation <b>2001</b> ,  |      | 1  |

