

Journals

2014

1. “Extraction of Semiconducting Single-Walled Carbon Nanotubes Encapsulating Fullerenes by Poly (9,9-dioctylfluorene-alt-benzothiadiazole)”
M. Tange, J. K. Kwon, **T. Okazaki** and S. Iijima
Jpn. J. Appl. Phys., 53, 045101 (2014).
2. “Spectroscopic Characterization of Nanohybrids Consisting of Single-walled Carbon Nanotube and Fullerodendron”
H. Suzuki, Y. Iizumi, M. Tange, S.-K. Joung, A. Furube, T. Wada, T. Tajima, Y. Takaguchi and **T. Okazaki**
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3. “Influence of structure-selective fluorene-based polymer wrapping on optical transitions of single-wall carbon nanotubes”
M. Tange, **T. Okazaki** and S. Iijima
Nanoscale, 6, 248-254 (2014).

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4. “Self-Assembled Carbon Nanotube Honeycomb Networks Using a Butterfly Wing Template as a Multifunctional Nanobiohybrid”
E. Miyako, T. Sugino, **T. Okazaki**, A. Bianco, M. Yudasaka, and S. Iijima
ACS Nano, 7(10), 8736-8742 (2013).
5. “Ordered and disordered packing of coronene molecules in carbon nanotubes”
B. Verberck, **T. Okazaki** and N. V. Tarakina
Phys. Chem. Chem. Phys., 15, 18108 (2013).
6. “Immunoassay with Single-Walled Carbon Nanotubes as Near-Infrared Fluorescent Labels”
Y. Iizumi, **T. Okazaki**, Y. Ikehara, M. Ogura, S. Fukata and M. Yudasaka
ACS Appl. Mater. Interfaces, 5, 7665–7670 (2013).
7. “Photoemission study of the electronic structure of azafullerene encapsulated single-walled carbon nanotubes”

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8. "Depolarized Dynamic Light Scattering Study of Multi-Walled Carbon Nanotubes in Solution"

T. Eitoku, M. Tange, H. Kato and **T. Okazaki**

Mater. Exp., 3, 37-42 (2013).

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9. "Selective extraction of semiconducting single-wall carbon nanotubes by poly(9,9-dioctylfluorene-*alt*-pyridine) for 1.5 μm emission"

M. Tange, **T. Okazaki** and S. Iijima

ACS Appl. Mater. Interfaces, 4(12), 6458-6462 (2012).

10. "Weak Response of Metallic Single-Walled Carbon Nanotubes to C₆₀ Encapsulation Studied by Resonance Raman Spectroscopy"

S.-K. Joung, **T. Okazaki**, S. Okada and S. Iijima

J. Phys. Chem. C, 116, 23844-23850 (2012).

11. "Dimerization-Initiated Preferential Formation of Coronene-Based Graphene Nanoribbons in Carbon Nanotubes"

M. Fujihara, Y. Miyata, R. Kitaura, Y. Nishimura, C. Camacho, S. Irle, Y. Iizumi, **T. Okazaki** and H. Shinohara

J. Phys. Chem. C, 116, 15141-15145 (2012).

12. "Counting Photons Emitted from Single Er Atoms in Energy Dispersive X-ray Spectroscopy"

K. Suenaga, **T. Okazaki**, E. Okunishi and S. Matsumura

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13. "Single Chirality Purification of Single Wall Carbon Nanotubes for the Encapsulation of Organic Molecules"

M. Kawai, T. Suzuki, T. Igarashi, H. Suzuki, **T. Okazaki**, H. Kataura, Y. Maniwa and K. Yanagi

J. Am. Chem. Soc., 134, 9545-9548 (2012).

14. "Transparent conductive thin films of single-wall carbon nanotubes encapsulating dopant molecules"

N. Kishi, I. Miwa, **T. Okazaki**, T. Saito, T. Mizutani, H. Tsuchiya, T. Soga and T. Jimbo

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15. “Single-molecule sensing electrode embedded in-plane nanopore”
M. Tsutsui, S. Rahong, Y. Iizumi, **T. Okazaki**, M. Taniguchi and T. Kawai
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16. “Selective extraction of large-diameter single-wall carbon nanotubes with specific chiral indices by poly(9,9-dioctylfluorene-alt-benzothiadiazole)”
M. Tange, **T. Okazaki** and S. Iijima
J. Am. Chem. Soc., 133, 11908-11911 (2011).
17. “Origin of the n-type Transport Behavior of Azafullerenes Encapsulated in Single-Walled Carbon Nanotubes”
N. T. Cuong, M. Otani, Y. Iizumi, **T. Okazaki**, G. Rotas, N. Tagmatarchis, Y. Li, T. Kaneko, R. Hatakeyama and S. Okada
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18. “Single Atom Spectroscopy with Reduced Delocalization Effect Using a 30kV-STEM”
K. Suenaga, Y. Iizumi and **T. Okazaki**
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T. Okazaki, Y. Iizumi, S. Okubo, H. Kataura, Z. Liu, K. Suenaga, Y. Tahara, M. Yudasaka, S. Okada and S. Iijima.
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20. “Ultra-narrow WS₂ nanoribbons encapsulated in carbon nanotubes”
Z. Wang, K. Zhao, H. Li, Z. Liu, Z. Shi, J. Lu, K. Suenaga, S.-K. Joung, **T. Okazaki**, Z. Jin, Z. Gu, Z. Gao and S. Iijima
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N. Karousis, S. P. Economopoulos, Y. Iizumi, **T. Okazaki**, Z. Liu, K. Suenaga and N. Tagmatarchis
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S. Okubo, **T. Okazaki**, K. Hirose-Takai, K. Suenaga, S. Okada, S. Bandow and S. Iijima
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23. “Mixed Low-dimensional Nanomaterial: 2D MoS₂ Inorganic Nanoribbons Encapsulated in Quasi-1D Carbon Nanotubes “
Z. Wang, H. Li, Z. Liu, Z. Shi, J. Lu, K. Suenaga, S.-K. Joung, **T. Okazaki**, Z. Gu, J. Zhou, Z. Gao, G. Li, S. Sanvito, E. Wang and S. Iijima
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24. “Host-Guest Interaction between Single-Wall Carbon Nanotubes and Encapsulated C₆₀ Probed by Resonance Raman Spectroscopy”
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26. “Fundamental Importance of Background Analysis in Precise Characterization of Single-Walled Carbon Nanotubes by Optical Absorption Spectroscopy”
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M. Koshino, Y. Niimi, E. Nakamura, H. Kataura, **T. Okazaki**, K. Suenaga and S. Iijima
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29. “Visualizing and identifying single atoms using electron energy-loss spectroscopy with low accelerating

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K. Suenaga, Y. Sato, Z. Liu, H. Kataura, **T. Okazaki**, K. Kimoto, H. Sawada, T. Sasaki, K. Omoto, T. Tomita, T. Kaneyama and Y. Kondo

Nature Chem., 1(5), 415-418 (2009).

30. “Fullerene Encapsulation Effects on Radial Breathing Mode Frequencies of Single-Walled Carbon Nanotubes”

S.-K. Joung, **T. Okazaki**, N. Kishi, S. Okada, S. Bandow, and S. Iijima

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31. “Self-assembled Double Ladder Structure Formed Inside Carbon Nanotubes by Encapsulation of $H_8Si_8O_{12}$ ”

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32. “Tuning of Electronic Properties of Single-Walled Carbon Nanotubes under Homogenous Conditions”

Y. Maeda, A. Sagara, M. Hashimoto, Y. Hirashima, K. Sode, T. Hasegawa, M. Kanda, M. O. Ishitsuka, T. Tsuchiya, T. Akasaka, **T. Okazaki**, H. Kataura, J. Lu, S. Nagase and S. Takeuchi

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33. “Mono-dispersed single-walled carbon nanotubes made by using arc-burning method in nitrogen atmosphere”

S. Suzuki, T. Mizusawa, **T. Okazaki** and Y. Achiba

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34. “Diameter-Selective Interaction between Single-Walled Carbon Nanotubes and Encapsulated Fullerenes”

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Y. Maeda, T. Kato, J. Higo, T. Hasegawa, T. Kitano, T. Tsuchiya, T. Akasaka, **T. Okazaki**, J. Lu and S. Nagase

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Y. Iizumi, **T. Okazaki**, M. Zhang, M. Yudasaka and S. Iijima

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N. Izard, S. Kazaoui, K. Hata, **T. Okazaki**, T. Saito, S. Iijima and N. Minami
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40. "Atom-like behaviors and orbital-related Tomonaga-Luttinger liquids in carbon nano-peapod quantum dots"
J. Mizubayashi, J. Haruyama, I. Takesue, **T. Okazaki**, H. Shinohara, Y. Harada and Y. Awano
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43. "Structure of D_{5d} - C_{80} and I_h - $\text{Er}_3\text{N}@C_{80}$ Fullerenes and Their Rotation Inside Carbon Nanotubes Demonstrated by Aberration-Corrected Electron Microscopy"
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March 25-29, 2001, Washington DC, USA
“Endohedral Metallofullerenes in Carbon Nanotubes”
2. The 201st Electrochemical Society Meeting.
May 12-17, 2002, Philadelphia, PA, USA
“Electronic and Geometric Structures of Various Fullerene Peapods”
3. IMS Symposium: Frontiers of Molecular Science: From Spectroscopy to Nano Systems

November 19, 2002, IMS, Okazaki, Japan

“Endohedral Metallofullerenes in Carbon Nanotubes”

4. The 203nd Electrochemical Society Meeting

April 27- May 2, 2003, Paris, France

“Production of Fullerenes and Carbon Nanotubes by the Hot-Filament Assisted CVD Method”

5. The 207th Electrochemical Society Meeting

May 15- May 20, 2005, Quebec City, Canada

“NIR Photoluminescence and Resonant Raman Mappings of SWNTs”

6. PACIFICHEM2005

December 16, 2005, Honolulu, HA, USA.

“Dispersion effects on the photoluminescence mapping of single-walled carbon nanotubes in micellar solutions”

7. The 209th Electrochemical Society Meeting

May 7- May 12, 2006, Denver, Co, USA

“Photoluminescence behaviors of Er metallofullerenes, nano-peapods and peapods-derived double-wall carbon nanotubes”

8. The 211th Electrochemical Society Meeting

May 7- May 10, 2007, Chicago, IL, USA

“Near-IR Photoluminescence from C₆₀ nano-peapods”

9. International carbon nanotube conference in Nagoya University

February 14-15, 2008, Nagoya

“Band gap modification of single-walled carbon nanotubes by encapsulated fullerenes”

10. The 213rd Electrochemical Society Meeting

May 18- 23, 2008, Phoenix, AZ, USA

“Band gap modification of single-walled carbon nanotubes by encapsulated fullerenes”

11. NIMS Conference 2008

July 15-16, 2008, Tsukuba, Japan

“Band gap modification of single-walled carbon nanotubes by encapsulated molecules”

12. The 215th Electrochemical Society Meeting

May 28, 2009, San Francisco, CA, USA

“Ultrafine recognition of encapsulated molecule size by single-wall carbon nanotubes (Keynote Talk)”

13. Lecture in College of Chemistry and Molecular Engineering, Peking University

October 13, 2009, Beijing, China

“Self-assembled Nanostructures inside single-wall carbon nanotubes”

14. The 217th Electrochemical Society Meeting

April 28, 2010, Vancouver, Canada.

- “Production and Characterization of Single-Wall Carbon Nanotubes Encapsulated Fluorescent Molecules”
15. The 217th Electrochemical Society Meeting
April 26, 2010, Vancouver, Canada.
“Effects of Fullerene Encapsulation on Radial Breathing Mode Frequencies of Metallic Single-Wall Carbon Nanotubes”
 16. Fullerene Silver Anniversary Symposium – FSAS 2010
October 9, 2010, Crete, Greece
“Self-Assembled Nanostructures in Single-Wall Carbon Nanotubes”
 17. Japan-Finland Workshop on "Atomic defects in low-dimensional materials"
October 27, 2010, Kyoto, Japan
"Self-assembled nanostructures in single-wall carbon nanotubes"
 18. Pacifichem2010
December 16, 2010, Hawaii, USA
“Self-Assembled Nanostructures in Single-Wall Carbon Nanotubes”
 19. The 219th Electrochemical Society Meeting
May 3, 2011, Montreal, Canada
“Fluorescence from molecules encapsulated inside carbon nanotubes”
 20. The 219th Electrochemical Society Meeting
May 4, 2011, Montreal, Canada
“One-dimensional molecular crystals produced in carbon nanotubes”
 21. Joint international conference “Advanced Carbon Nanostructures” (ACN’ 2011)
July 4, 2011, St. Petersburg, Russia
“One-dimensional molecular nano-structures inside single-walled carbon nanotubes”
 22. Lecture in CNRS, University of Paris Sud
March 28, 2012, Paris, France
“Optical properties of single-walled carbon nanotubes and encapsulated molecules inside them”
 23. The 221st Electrochemical Society Meeting
May 8, 2012, Seattle, WA, USA
“Tube-length dependence of far-infrared absorption of single-walled carbon nanotubes”
 24. The 221st Electrochemical Society Meeting
May 10, 2012, Seattle, WA, USA
“Effects of “nanotube field” on physical properties of encapsulated molecules in carbon nanotubes”
 25. 9th International Conference on Nanosciences & Nanotechnologies (Nanotechnology 2012)
July 5, 2012, Thessaloniki, Greece
“Molecular Nanostructures inside Single-Walled Carbon Nanotubes”
 26. The 2nd symposium on “Carbon Nanoforms” (Japan-Spain joint symposium)

July 9, 2012, Tsukuba, Japan

“Molecular Nanostructures inside Single-Walled Carbon Nanotubes”

27. International Symposium on Concurrent Development of Metrological and Document Standard

September 14, 2012, Hakata, Japan

“Aggregation/agglomeration of carbon nanotubes”

28. PRiME 2012 (Joint international meeting of ECS and the Electrochemical Society of Japan)

October 9, 2012, Honolulu, HA, USA

“Far-Infrared Absorption of Single-Walled Carbon Nanotube Films”

29. The 223rd Electrochemical Society Meeting

May 8, 2013, Toronto, Canada

“Optical response of single-walled carbon nanotubes in far-infrared region”

30. The 223rd Electrochemical Society Meeting

May 8, 2013, Toronto, Canada

“Functionalization of Carbon Nanotubes by Molecular Encapsulations”

31. 7th International Workshop on Metrology, Standardization and Industrial Quality of Nanotubes (MSIN13)

June 29, 2013, Tallinn, Estonia

“Optical Absorption of Single-Walled Carbon Nanotubes in the Far-Infrared Region”

32. International Conference on Small Science (ICSS 2013)

December 15, 2013, Las Vegas, USA

“Far-infrared absorption of single-walled carbon nanotubes”

招待講演・レクチャー(国内)

1. 「フラーレン内包カーボンナノチューブの合成と物性」分子研若手放談会

(マテリアルとバイオで、基礎科学の夢は開くのか?)

2001年3月8日、分子科学研究所

2. 日本化学会第80秋季年会 依頼講演

(π 電子がつくる機能性：有機導体、磁性体からフラーレン、ナノチューブの物理と化学)

2001年9月22日、千葉大学

「新しいハイブリッド・ナノ炭素材料：フラーレン内包カーボンナノチューブ」

3. 第93回 物理化学セミナー

2001年12月15日、京都大学

「新しいフラーレン関連物質の合成と開発ーサマリウム内包フラーレンとフラーレン内包ナノチューブ」

4. 分子研研究会

(ナノ粒子・クラスター研究の現状と将来への提言)

2002年2月13～14日、分子科学研究所

「フラーレンとナノチューブで、基礎科学の夢は開くのか？」

5. 第11回 理論化学シンポジウム
2002年8月5～7日、伊良湖（愛知県渥美郡）
「金属を内包したフラーレンと、フラーレンを内包したナノチューブ」
6. 第4回名古屋ナノネット講演会
2002年10月15日、名古屋大学
「新しい炭素ナノ物質の創製と探索」
7. 日本化学会第84春季年会
(特別企画「超分子科学の視点から見たフラーレン・カーボンナノチューブ」)
2004年3月29日、関西学院大学
「金属フラーレン内包カーボンナノチューブ研究の最前線」
8. 仙台“プラズマフォーラム”(平成19年度 東北大学電気通信研究所共同プロジェクト研究会「プラズマナノ理工学基盤研究」)
2008年2月21～22日、東北大学
「フラーレン内包によるカーボンナノチューブの光学的バンドギャップ変調」
9. (財)科学技術交流財団「カーボンナノチューブ応用研究会」
2008年6月11日、名城大学
「ナノピーポッド研究の現状とこれから」
10. 筑波大学 先端学際領域研究センター(TARA センター)公開セミナー
2009年6月5日、筑波大学
「カーボンナノチューブを基盤とした超分子系の構造と物性」
11. 日本化学会第4回関東支部会
2010年8月31日、筑波大学
「カーボンナノチューブ内部空間を利用した機能性一次元分子集合体の創製」
12. 次世代研究者・異分野研究連携育成支援事業ワークショップ
2011年1月18日、岡山大学
「ナノチューブ内部空間を利用した1次元ナノ構造体の創製と物性」
13. 日本化学会第91回春季年会
2011年3月26日、横浜
「カーボンナノチューブ内部空間を利用した機能性一次元分子集合体の創製」
14. 第2回プラズマ医療・健康産業シンポジウム
2011年12月15日、産総研臨界センター、東京
「カーボンナノチューブの分子プローブとしての可能性」
15. 仙台“プラズマフォーラム”(平成23年度 東北大学電気通信研究所共同プロジェクト研究会)
2012年2月18日、仙台
「カーボンナノチューブをテンプレートとした分子ナノ構造創製とカーボンナノチューブ赤外吸

収の起源」

16. 第43回フラーレン・ナノチューブ・グラフェン総合シンポジウム
2012年9月5日、仙台
「カーボンナノチューブ複合物質の創製と評価」
17. 第10回 CEREBBA 技術交流セミナー
2013年10月1日、産総研、つくば
「カーボンナノチューブのプラズモニクス」
18. 研究会「ナノマテリアル研究の新潮流と展望」
2013年11月23日、名古屋大学
「研究所で研究すること」

特許

1. 「中空ナノ炭素集合体並びに一重項酸素消去剤、化粧剤、皮膚ガン抑制剤及び退色防止剤」
柳和宏・片浦弘道・**岡崎俊也**・大窪清吾
特許第 4899154 号(特願 2006-255957)
2. 「カーボンナノチューブの洗浄処理剤およびこれを用いたカーボンナノチューブの精製方法」
大窪清吾・**岡崎俊也**
特許第 4893955 号(特願 2007-135389)
3. 「蛍光分子内包型カーボンナノチューブ」
岡崎俊也・湯田坂雅子・飯泉陽子・田原善夫
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