
Publications in Peer-Reviewed Journals

- 78) Photo-responsive graphene and carbon nanotubes to control and tackle biological systems
F. Cardano, M. Frascioni, S. Giordani**
Frontiers in Chemistry 2018, 6, article n. 102
- 77) Internalization of carbon nano-onions by hippocampal cells preserves neuronal circuit function and recognition memory
M. Trusel, M. Baldrighi, R. Marotta, F. Gatto, M. Pesce, M. Frascioni, T. Catelani, F. Papaleo, P. P. Pompa, R. Tonini, S. Giordani**
ACS Applied Materials & Interfaces 2018, 10, 16952–16963
- 76) Introducing stable radicals into molecular machines
*Y. Wang, M. Frascioni, J. F. Stoddart**
ACS Central Science 2017, 3, 927–935
- 75) Ion pair formation between tertiary aliphatic amines and perchlorate in the biphasic water/dichloromethane system
*D. Badocco, V. Di Marco, A. Venzo, M. Frascioni, D. Frezzato, P. Pastore**
Journal of Physical Chemistry B 2017, 121, 9403–9410
- 74) Porous graphite oxide pillared with tetrapod-shaped molecules
J. Sun, F. Morales-Lara, A. Klechikova, A. V. Talyzin, I. A. Baburin, G. Seifert, F. Cardano, M. Baldrighi, M. Frascioni,* S. Giordani**
Carbon 2017, 120, 145–156
- 73) Surface plasmon resonance in gold nanoparticles: a review
V. Amendola, R. Pilot, M. Frascioni, O. M. Maragò, M. A. Iati*
Journal of Physics: Condensed Matter 2017, 29, 203002
- 72) Sliding-ring catenanes
*I. R. Fernando, M. Frascioni, Y. Wu, W.-G. Liu, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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- 71) Influence of constitution and charge on radical pairing interactions in triradical tricationic complexes
*C. Cheng, T. Cheng, H. Xiao, M. D. Krzyaniak, Y. Wang, P. R. McGonigal, M. Frascioni, J. C. Barnes, A. C. Fahrenbach, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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- 70) Oligorotaxane radicals under orders
*Y. Wang, M. Frascioni, W.-G. Liu, J. Sun, Y. Wu, M. S. Nassar, Y. Y. Botros, W. A. Goddard III, M. R. Wasielewski, J. F. Stoddart**
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- 69) Quantum mechanical and experimental validation that cyclobis(paraquat-p-phenylene) forms a 1:1 inclusion complex with tetrathiafulvalene
K. J. Hartlieb, W.-G. Liu, A. C. Fahrenbach, A. K. Blackburn, M. Frasconi, N. Hafezi, S. K. Dey, A. A. Sarjeant, C. L. Stern, W. A. Goddard III, J. F. Stoddart**
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- 68) Ultrafast photoinduced symmetry-breaking charge separation and electron sharing in perylene-diimide molecular triangles
Y. Wu, R. M Young, M. Frasconi, S. T. Schneebeli, P. Spenst, D. M Gardner, K. E Brown, F. Würthner, J. F. Stoddart,* M. R Wasielewski**
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- 67) Multi-functionalized carbon nano-onions as imaging probes for cancer cells
*M. Frasconi, R. Marotta, L. Markey, K. Flavin, V. Spampinato, G. Ceccone, L. Echegoyen, E. M. Scanlan, S. Giordani**
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- 66) Highly surface functionalized carbon nano-onions for bright light bioimaging
*M. Frasconi, V. Maffei, J. Bartelmess, L. Echegoyen, S. Giordani**
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- 65) Redox control of the binding modes of an organic receptor
*M. Frasconi, I. R. Fernando, Y. Wu, Z. Liu, W.-G. Liu, S. M. Dyar, G. Barin, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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- 64) Non-covalent functionalization of carbon nano-onions with pyrene-BODIPY dyads for biological imaging
*J. Bartelmess,[†] M. Frasconi,[†] P. B. Balakrishnan, A. Signorelli, L. Echegoyen, T. Pellegrino, S. Giordani**
RSC Advances 2015, 5, 50253–50258
- 63) Complexation of polyoxometalates with cyclodextrins
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Journal of the American Chemical Society 2015, 137, 4111–4118
- 62) Esterase- and pH-responsive poly(β -amino ester)-capped mesoporous silica nanoparticles for drug delivery
*I. R. Fernando, D. P. Ferris, M. Frasconi, D. Malin, E. Strelakova, M. D. Yilmaz, M. W. Ambrogio, M. M. Algaradah, M. P. Hong, X. Chen, M. S. Nassar, Y. Y. Botros, V. L. Cryns, J. F. Stoddart**
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- 60) Formation of ring-in-ring complexes between crown ethers and rigid TVBox⁸⁺
*J. Sun, M. Frasconi, Z. Liu, J. C. Barnes, Y. Wang, D. Chen, C. L. Stern, J. F. Stoddart**
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- 59) Controlling association kinetics in the formation of donor-acceptor pseudorotaxanes
*P. R. McGonigal, H. Li, C. Cheng, S. T. Schneebeli, M. Frasconi, L. S. Witus, J. F. Stoddart**
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- 57) Energetically demanding transport in a supramolecular assembly
*C. Cheng, P. R. McGonigal, W.-G. Liu, H. Li, N. A. Vermeulen, C. Ke, M. Frasconi, C. L. Stern, W. A. Goddard III, J. F. Stoddart**
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Angewandte Chemie – International Edition 2014, 53, 9476–9481
- 52) Relative contractile motion of the rings in a switchable palindromic [3]rotaxane in aqueous solution driven by radical-pairing interactions
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M. D. Yilmaz, T. Aytun, M. Frasconi, S. I. Stupp, J. F. Stoddart**
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*C. J. Bruns, M. Frasconi, J. Iehl, K. J. Hartlieb, S. T. Schneebeli, C. Cheng, S. I. Stupp, * J. F. Stoddart **
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*S. T. Schneebeli,[†] M. Frasconi,[†] Z. Liu, Y. Wu, D. M. Gardner, N. L. Strutt, C. Cheng, R. Carmieli, M. R. Wasielewski, * J. F. Stoddart**
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*M. Frasconi, Z. Liu, J. Lei, Y. Wu, E. Strelakova, D. Malin, M. W. Ambrogio, X. Chen, Y. Y Botros, V. L. Cryns, * J.-P. Sauvage, * J. F. Stoddart**
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*M. W. Ambrogio, M. Frasconi, D. M. Yilmaz, X. Chen**
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*A. A. Bagabas, * M. Frasconi, J. Iehl, B. Hauser, O. K. Farha, J. T. Hupp, K. J. Hartlieb, Y. Y. Botros, J. F. Stoddart**
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*J. J. Gassensmith, P. M. Erne, W. F. Paxton, M. Frasconi, M. D. Donakowski, J. F. Stoddart**
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*J. C. Barnes, A. C. Fahrenbach, D. Cao, S. M. Dyar, M. Frasconi, M. A. Giesener, D. Benitez, E. Tkatchouk, O. Chernyashvskyy, W. H. Shin, H. Li, S. Sampath, C. L. Stern, A. A. Sarjeant, K. J. Hartlieb, Z. Liu, R. Carmieli, Y. Y. Botros, J. W. Choi, A. M. Z. Slawin, J. B. Ketterson, M. R. Wasielewski, W. A. Goddard III, J. F. Stoddart**
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*J. C. Barnes, M. Juriček, N. L. Strutt, M. Frasconi, S. Sampath, M. A. Giesener, P. L. McGrier, C. J. Bruns, C. L. Stern, A. A. Sarjeant, J. F. Stoddart**
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- 1) Determination of Se(IV) and Se(VI) in Italian mineral waters
T. Ferri, M. Frasconi*
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Patents

1) Compounds and methods to isolate gold

J. Fraser Stoddart, Zhichang Liu, Marco Frasconi, Dennis Cao

No. WO2014172667, US Patent No. US, 9 399 803 B2

Publication date: 26/07/2016

2) Viologen-based rotaxane

J. Fraser Stoddart, Yuping Wang, Marco Frasconi, Junling Sun

Patent Application No: PCT/US2017/015299

Disclosure Date: 27/01/2017

3) Redox active triangular organic materials

J. Fraser Stoddart, Severin T. Schneebeli, Zhichang Liu, Marco Frasconi

US Formalization No. 62/045,531

Publication date: 03/09/2014

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