

## List of Publications (Yasujiro Murata)

### ORIGINAL PAPERS

- 265 Theoretical Study of the Mechanism of the Formation of Azomethine Ylide from Isatine and Sarcosine and its Reactivity in 1,3-Dipolar Cycloaddition Reaction with 7-Oxabenzonorborene.  
Antol, I.; Strbac, P.; Murata, Y.; Margetic, D.  
*Int. J. Mol. Sci.* **2024**, *25*, 6524 (12 pages). DOI: 10.3390/ijms25126524
- 264 Solution Dynamics of Covalent Open-[60]Fullerene Dimers  
Hashikawa, Y.; Okamoto, S.; Murata, Y.  
*ChemPlusChem* **2024**, *89*, e202400260 (5 pages). DOI: 10.1002/cplu.202400260
- 263 Phosphine-Mediated Dimerization of Open-[60]Fullerenes (Cover Picture)  
Okamoto, S.; Hashikawa, Y.; Murata, Y.  
*Chem. Asian J.* **2024**, *19*, e202400142 (5 pages). DOI: 10.1002/asia.202400142
- 262 Water Adsorption on  $\pi$ -Surfaces of Open-Fullerenes  
Hashikawa, Y.; Sadai, S.; Ikemoto, Y.; Murata, Y.  
*J. Phys. Chem. A* **2024**, *128*, 2782-2788. DOI: 10.1021/acs.jpca.4c01157
- 261 Direct Through-Space Substituent- $\pi$  Interactions in Noncovalent Arene-Fullerene Assemblies  
Hashikawa, Y.; Murata, Y.  
*Chem. Asian J.* **2024**, *19*, e202400075 (6 pages). DOI:10.1002/asia.202400075
- 260 Reactions of Diaminonaphthalenes with a Cage-Opened C<sub>60</sub> Derivative  
Huang, G.; Sadai, S.; Hashikawa, Y.; Murata, Y.  
*Asian J. Org. Chem.* **2024**, *13*, e202300634 (5 pages). DOI: 10.1002/ajoc.202300634
- 259 Molecular CO<sub>2</sub> Storage: State of a Single-Molecule Gas (Front Cover)  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*ACS Phys. Chem. Au* **2024**, *4*, 143-147. DOI: 10.1021/acspchemau.3c00068
- 258 An Open-Cage Bis[60]fulleroid as Electron Transport Material for Tin Halide Perovskite Solar Cells (Inside front cover)  
Liu, W.; Huang, G.; Chen, C.-Y.; Tan, T.; Fuyuki, H.; Hu, S.; Nakamura, Y.; Truong, M. A.; Murdey, R.; Hashikawa, Y.; Murata, Y.; Wakamiya, A.  
*Chem. Commun.* **2024**, *60*, 2172-2175. DOI: 10.1039/D3CC05843C
- 257 Cobalt-Functionalized Open-[60]Fullerenes (Cover Art)  
Hashikawa, Y.; Murata, Y.  
*Organometallics* **2024**, *43*, 227-232. DOI: 10.1021/acs.organomet.3c00484
- 256 Open-[60]fullerenols with Water Adsorbed both Inside and Outside (Open Access)  
Hashikawa, Y.; Sadai, S.; Ikemoto, Y.; Murata, Y. (Outside Back Cover)  
*Chem. Commun.* **2024**, *60*, 1261-1264. DOI: 10.1039/D3CC05542F
- 255 Synthesis of Inter-[60]Fullerene Conjugates with Inherent Chirality (Editors' Highlights)

- Hashikawa, Y.; Okamoto, S.; Murata, Y.  
*Nat. Commun.* **2024**, *15*, 514 (7 pages). DOI: 10.1038/s41467-024-44834-x
- 254 Synthesis of an Open-Cage C<sub>60</sub> Derivative with a Double Stopper  
Huang, G.; Hashikawa, Y.; Murata, Y.  
*ChemistrySelect* **2023**, *8*, e20230488. DOI: 10.1002/slct.202304880
- 253 Construction of a 21-Membered-Ring Orifice on [60]Fullerene  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*ChemPlusChem* **2023**, *88*, e202300225 (7 pages). DOI: 10.1002/cplu.202300225
- 252 Synthesis of Hydrogen-Bonded Open-[60]Fullerenol Dimers (Cover Feature)  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*ChemPlusChem* **2023**, *88*, e202300136 (5 pages). DOI:10.1002/cplu.202300136
- 251 CH<sub>3</sub>CN@Open-C<sub>60</sub>: An Effective Inner-Space Modification and Isotope Effect inside the Nano-Sized Flask (Cover Picture)  
Huang, G.; Ide, Y.; Hashikawa, Y.; Hirose, T.; Murata, Y.  
*Chem. Eur. J.* **2023**, *29*, e202301161 (7 pages). DOI: 10.1002/chem.202301161 and 10.1002/chem.202401388
- 250 Circularly Polarized Luminescence of Hetero[n]helicenes with 2,1,3-Thiadiazole Rings at Both Ends: Design of Magnetically-Allowed Electronic Transitions via Heteroatom Embedding  
Zhang, Z.; Murata, Y.; Hirose, T.  
*Tetrahedron* **2023**, *142*, 133514 (8 pages). DOI: 10.1016/j.tet.2023.133514
- 249 Synthesis of Open-[70]Fullerenes Bearing a Huge Orifice  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*Chem. Commun.* **2023**, *59*, 7387-7390. DOI: 10.1039/D3CC01717F
- 248 Bilateral  $\pi$ -Extension of an Open-[60]Fullerene in a Helical Manner  
Hashikawa, Y.; Sadai, S.; Murata, Y. (open access)  
*Chem. Commun.* **2023**, *59*, 6560-6563. DOI: 10.1039/D3CC00784G
- 247  $\pi$ -Extended Open-[70]Fullerenes with a Fused Azaacene (Cover Picture)  
Sadai, S.; Hashikawa, Y.; Murata, Y.  
*Org. Lett.* **2023**, *25*, 2815-2819. DOI: 10.1021/acs.orglett.3c00726
- 246 Open-[60]Fullerene-Aniline Conjugates with Intense Near-Infrared Absorption  
Sadai, S.; Hashikawa, Y.; Murata, Y. (open access)  
*RSC Advances* **2023**, *13*, 14575-14579. DOI: 10.1039/d3ra02113k
- 245 C<sub>2</sub>-Insertion into a Fullerene Orifice  
Hashikawa, Y.; Murata, Y.  
*Chem. Commun.* **2023**, *59*, 1645-1648. DOI: 10.1039/d2cc06531b
- 244 Near-Infrared-Absorbing Chiral Open [60]Fullerenes  
Hashikawa, Y.; Sadai, S.; Okamoto, S.; Murata, Y.

*Angew. Chem. Int. Ed.* **2023**, *62*, e202215380 (7 pages). DOI: 10.1002/anie.202215380 and 10.1002/ange.202215380

- 243 Utilization of sym-Tetrazines as Guanidine Delivery Cycloaddition Reagents. An Experimental and Computational Study  
Bris, A.; Murata, Y.; Hashikawa, Y.; Margetic, D.  
*J. Mol. Struct.* **2023**, *1272*, 134207. DOI: 10.1016/j.molstruc.2022.134207
- 242  $\pi$ -Extended Fullerenes with a Reactant Inside  
Hashikawa, Y.; Fujikawa, N.; Murata, Y.  
*J. Am. Chem. Soc.* **2022**, *144*, 23292-23296. DOI: 10.1021/jacs.2c12259
- 241 Phosphorus Ylides of Cage-Opened Sulphide [60]Fullerene Derivatives  
Hashikawa, Y.; Fujikawa, N.; Okamoto, S.; Murata, Y.  
*Dalton Trans.* **2022**, *51*, 17804-17808. DOI: 10.1039/D2DT03214G
- 240 Chiral Open-[60]Fullerene Ligands with Giant Dissymmetry Factors  
Hashikawa, Y.; Okamoto, S.; Sadai, S.; Murata, Y.  
*J. Am. Chem. Soc.* **2022**, *144*, 18829-18833. DOI: 10.1021/jacs.2c09556
- 239 Selective Addition of Aniline to a Cage-Opened Diketo Anhydride Derivative of C<sub>60</sub>  
Hashikawa, Y.; Sadai, S.; Li, J.; Okamoto, S.; Murata, Y.  
*Chem. Lett.* **2022**, *51*, 949-952. DOI: 10.1246/cl.220285
- 238 Consecutive Utilization of Mechanochemical and Microwave Methods for Synthesis of Boc-2-amino-quinazolin-4(3H)-ones and DFT Study of Mechanism 6p-Diazaelectrocyclization Process (Cover Picture)  
Antol, I.; Glasovac, Z.; Murata, Y.; Hashikawa, Y.; Margetic, D.  
*ChemistrySelect* **2022**, *7*, e202200633 (9 pages). DOI: 10.1002/slct.202200633
- 237 Aniline-Mediated Imination and Reduction of a Cage-Opened C<sub>60</sub> Derivative  
Hashikawa, Y.; Murata, Y.  
*Asian J. Org. Chem.* **2022**, *11*, e202200357DOI (5 pages). DOI: 10.1002/ajoc.202200357
- 236 Amphiphilic gamma-Cyclodextrin-Fullerene Complexes with Photodynamic Activity  
Miki, K.; Zhang, Z. D.; Kaneko, K.; Kakiuchi, Y.; Kojima, K.; Enomoto, A.; Oe, M.; Nogita, K.; Murata, Y.; Harada, H.; Ohe, K.  
*Mater. Adv.* **2022**, *3*, 312-317. DOI:10.1039/d1ma00743b
- 235  $\pi$ -Backbonding on Group 9 Metal Complexes Bearing an  $\eta^2$ -(H<sub>2</sub>O@C<sub>60</sub>) Ligand  
Hashikawa, Y.; Kawasaki, H.; Murata, Y.  
*Organometallics* **2022**, *41*, 354-359. DOI: 10.1021/acs.organomet.1c00706
- 234 Cage-Opened C<sub>60</sub> Isomers with Different Reactivities  
Zhang, S.; Hashikawa, Y.; Murata, Y.  
*Asian J. Org. Chem.* **2022**, *11*, e202100676 (4pages). DOI: 10.1002/ajoc.202100676
- 233 Hydrogenation of Cage-Opened C<sub>60</sub> Derivatives Mediated by Frustrated Lewis Pairs

- Hashikawa, Y.; Murata, Y.  
*Org. Bioorg. Chem.* **2022**, *20*, 1000-1003. DOI: 10.1039/d1ob02316k
- 232 An H<sub>2</sub>O<sub>2</sub> Molecule Stabilized inside Open-Cage C<sub>60</sub> Derivatives by a Hydroxy Stopper  
Huang, G.; Hasegawa, S.; Hashikawa, Y.; Ide, Y.; Hirose, T.; Murata, Y.  
*Chem. Eur. J.* **2022**, *28*, e202103836 (5 pages). DOI: 10.1002/chem.202103836
- 231 *Ortho-Para* Fluctuation of Water Molecule in H<sub>2</sub>O@C<sub>60</sub> Single Molecule Transistors  
Du, S.; Hashikawa, Y.; Ito, H.; Hashimoto, K.; Murata, Y.; Hirayama, Y.; Hirakawa, K.  
*Nano Lett.* **2021**, *21*, 10346-10353. DOI: 10.1021/acs.nanolett.1c03604
- 230 Amino-Functionalized Cage-Opened C<sub>60</sub> Derivatives (Cover Picture)  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*Org. Lett.* **2021**, *23*, 9586-9590. DOI: 10.1021/acs.orglett.1c03798
- 229 Reductive Decarbonylation of a Cage-Opened C<sub>60</sub> Derivative (Cover Picture)  
Hashikawa, Y.; Sadai, S.; Murata, Y.  
*Org. Lett.* **2021**, *23*, 9495-9499. DOI: 10.1021/acs.orglett.1c03694
- 228 Synthesis and Oligomerization of CpM(CO)<sub>2</sub> (Cover Picture)  
Hashikawa, Y.; Murata, Y.  
*ACS Omega* **2021**, *6*, 34137-34141. DOI: 10.1021/acsomega.1c05739
- 227 Water-Mediated Thermal Rearrangement of a Cage-Opened C<sub>60</sub> Derivative (Cover Feature)  
Hashikawa, Y.; Murata, Y.  
*ChemPlusChem* **2021**, *86*, 1559-1562. DOI: 10.1002/cplu.202100421
- 226 An Androsterone-H<sub>2</sub>@C<sub>60</sub> hybrid: Synthesis, Properties and Molecular Docking Simulations with SARS-Cov-2 (Cover Picture)  
Suarez, M.; Makowski, K.; Lemos, R.; Almagro, L.; Rodriguez, H.; Herranz, M. A.; Molero, D.; Ortiz, O.; Mroto, E.; Albericio, F.; Murata, Y.; Martin, N.  
*ChemPlusChem* **2021**, *86*, 972-981. DOI: 10.1002/cplu.202000770
- 225 Mechanism of 2,6-Dichloro-4,4'-bipyridine-Catalyzed Diboration of Pyrazines Involving a Bipyridine-Stabilized Boryl Radical (BCSJ Award, Cover Picture)  
Ohmura, T.; Morimasa, Y.; Ichino, T.; Miyake, Y.; Murata, Y.; Sugimoto, M.; Tajima, K.; Taketsugu, T.; Maeda, S.  
*Bull. Chem. Soc. Jpn.* **2021**, *94*, 1894-1902. DOI: 10.1246/bcsj.20210145
- 224 Cage-Expansion of Fullerenes  
Zheng, S.; Hashikawa, Y.; Murata, Y.  
*J. Am. Chem. Soc.* **2021**, *143*, 12450-12454. DOI: 10.1021/jacs.1c05778
- 223 Pressure-Induced Annulative Orifice Closure of a Cage-Opened C<sub>60</sub> Derivative  
Hashikawa, Y.; Kizaki, K.; Murata, Y.  
*Chem. Commun.* **2021**, *57*, 5322-5325. DOI: 10.1039/d1cc01662h
- 222 Photochemical Orifice Expansion of a Cage-Opened C<sub>60</sub> Derivative (Cover Picture)

- Hashikawa, Y.; Hasegawa, S.; Murata, Y.  
*Org. Lett.* **2021**, *23*, 3854-3858. DOI: 10.1021/acs.orglett.1c00990
- 221 Dynamics and Magnetic Properties of NO Molecules Encapsulated in Open-cage Fullerene Derivatives Evidenced by Low Temperature Heat Capacity  
Horii, Y.; Suzuki, H.; Miyazaki, Y.; Nakano, M.; Hasegawa, S.; Hashikawa, Y.; Murata, Y.  
*Phys. Chem. Chem. Phys.* **2021**, *23*, 10251-10256. DOI: 10.1039/d1cp00482d
- 220 Reactions of C<sub>60</sub> with Pyridazine and Phthalazine  
Hashikawa, Y.; Li, H.; Murata, Y.  
*Chem. Eur. J.* **2021**, *27*, 7507-7511. DOI: 10.1002/chem.202100711
- 219 Reactions on a 1,2-Dicarbonyl Moiety of a Fullerene Skeleton  
Hashikawa, Y.; Li, J.; Okamoto, S.; Murata, Y.  
*Chem. Eur. J.* **2021**, *27*, 7235-7238. DOI:10.1002/chem.202100640
- 218 Infrared spectroscopy of endohedral H<sub>2</sub>O in C<sub>60</sub>  
Shugai, A.; Nagel, U.; Murata, Y.; Li, Y.; Mamone, S.; Krachmalnicoff, A.; Alom, S.; Whitby, R. J.; Levitt, M. H.; Room, T.  
*J. Phys. Chem.* **2021**, *154*, 124311. DOI: 10.1063/5.0047350
- 217 Non-Classical Abramov Products Formed on Orifices of Cage-Opened C<sub>60</sub> Derivatives (Cover Feature)  
Hashikawa, Y.; Okamoto, S.; Murata, Y.  
*Chem. Eur. J.* **2021**, *27*, 4864-4868. DOI: 10.1002/chem.202004035
- 216 Precise Fixation of an NO Molecule inside Carbon Nanopores: A Long-Range Electron-Nuclear Interaction  
Hashikawa, Y.; Hasegawa, S.; Murata, Y.  
*Angew. Chem. Int. Ed.* **2021**, *60*, 2866-2870 DOI: 10.1002/anie.202012538 and 10.1002/ange.202012538
- 215 Doubly-Holed Fullerenes (Cover Picture)  
Hashikawa, Y.; Fushino, T.; Murata, Y.  
*J. Am. Chem. Soc.* **2020**, *142*, 20572-20576. DOI: 10.1021/jacs.0c10676
- 214 Cation Recognition on a Fullerene-Based Macrocycle (Cover Picture)  
Hashikawa, Y.; Murata, Y.  
*Chem. Sci.* **2020**, *11*, 12428-12435. DOI: 10.1039/d0sc05280a
- 213 Synthesis of a Dihydroxylated Open-Cage [70]Fullerene by a Reductive Ring-Closure Reaction  
Hashikawa, Y.; Shimizu, Y.; Murata, Y.  
*Org. Lett.* **2020**, *22*, 8624-8628. DOI: 10.1021/acs.orglett.0c03216
- 212 An Orifice Design: Water Insertion into C<sub>60</sub>  
Hashikawa, Y.; Kizaki, T.; Hirose, T.; Murata, Y.  
*RSC Advances*, **2020**, *10*, 40406-40410. DOI: 10.1039/d0ra09067k
- 211 EPR Study of NO radicals encaged in modified open C<sub>60</sub> Fullerenes

- Dinse, K.-P.; Kato, T.; Hasegawa, S.; Hashikawa, Y.; Murata, Y.; Bittl, R.  
*Magn. Reson.* **2020**, *1*, 197-207. DOI: 10.5194/mr-1-197-2020
- 210 Precise Synthesis of Double-Armed Polymers with Fullerene C<sub>60</sub> at the Junction for Controlled Architecture  
Sakakibara, K.; Wakiuchi, A.; Murata, Y.; Tsujii, Y.  
*Polym. Chem.* **2020**, *11*, 4417-4425. DOI: 10.1039/d0py00458h
- 209 Organophosphorus Zwitterions Engaged in a Conjugated Macrocyclic Orifice on a Fullerene Cage  
Hashikawa, Y.; Okamoto, S.; Murata, Y.  
*Commun. Chem.* **2020**, *3*, 90. DOI: 10.1038/s42004-020-00340-x
- 208 A Single H<sub>2</sub>O Molecule inside Hydrophobic Carbon Nanocavities: Effect of Local Electrostatic Potential  
Hashikawa, Y.; Murata, Y. *Chem. Lett.* **2020**, *49*, 244-247. DOI: 10.1246/cl.190874
- 207 How to Make Dense and Flat Perovskite Layers for >20% Efficient Solar Cells: Oriented, Crystalline Perovskite Intermediates and their Thermal Conversion  
Ozaki, M.; Nakaïke, Y.; Shimazaki, A.; Jung, M.; Maruyama, N.; Yakumar, S.; Rafieh, A. I.; Ekanayake, P.; Saito, T.; Shimakawa, Y.; Sasamori, T.; Murata, Y.; Murdey, R.; Wakamiya, A.  
*Bull. Chem. Soc. Jpn.* **2019**, *92*, 1972-1979. DOI: 10.1246/bcsj.20190241
- 206 Phthalimide-Based Transparent Electron Transport Materials with Oriented-Amorphous Structure from Solution-Processed Precursor Films  
Nakamura, T.; Shioya, N.; Hasegawa, T.; Murata, Y.; Murdey, R.; Wakamiya, A.  
*ChemPlusChem* **2019**, *84*, 1396-1404. DOI: 10.1002/cplu.201900274
- 205 A Purified, Solvent-Intercalated Precursor Complex for Wide Process Window Fabrication of Efficient Perovskite Solar Cells and Modules  
Ozaki, M.; Shimazaki, A.; Jung, M.; Nakaïke, Y.; Maruyama, N.; Yakumar, S.; Rafieh, A. I.; Sasamori, T.; Tokitoh, N.; Ekanayake, P.; Murata, Y.; Murdey, R.; Wakamiya, A.  
*Angew. Chem. Int. Ed.* **2019**, *58*, 9389-9393. DOI: 10.1002/anie.201902235
- 204 Propeller-Shaped Aluminum Complexes with an Azaperylene Core in the Ligands (Cover Picture, Special Issue "Organoaluminum Compounds")  
Tsukao, M.; Hashikawa, Y.; Toyama, N.; Muraoka, M.; Murata, M.; Sasamori, T.; Wakamiya, A.; Murata, Y.  
*Inorganics* **2019**, *7*, 109 (13 pages). DOI: 10.3390/inorganics7090109
- 203 H<sub>2</sub>O/Olefinic- $\pi$  Interaction inside a Carbon Nanocage (Cover Picture)  
Hashikawa, Y.; Murata, Y.  
*J. Am. Chem. Soc.* **2019**, *141*, 12928-12938. DOI: 10.1021/jacs.9b06759
- 202 Tunable Single-Molecule Electronic Conductance of C<sub>60</sub> by Encapsulation  
Fujii, S.; Cho, H.; Hashikawa, Y.; Nishino, T.; Murata, Y.; Kiguchi, M.  
*Phys. Chem. Chem. Phys.* **2019**, *21*, 12606-12610. DOI: 10.1039/c9cp02469g
- 201 Iodine-rich Mixed Composition Perovskites Optimised for Tin(IV) Oxide Transport Layers: How

Starting Material Stability, Halide Ion Ratio, and Aging in Ambient Air Influence Solar Cell Performance

Ozaki, M.; Ishikura, Y.; Truong, M. A.; Liu, J.; Okada, I.; Tanabe, T.; Sekimoto, S.; Ohtsuki, T.; Murata, Y.; Murdey, R.; Wakamiya, A.

*J. Mater. Chem. A* **2019**, *7*, 16947-16953. DOI: 10.1039/C9TA02142F

- 200 Influence of Alkoxy Chain Length on the Properties of Two-Dimensionally Expanded Azulene Core-Based Hole-Transporting Materials for Efficient Perovskite Solar Cells (Cover Picture)  
Truong, M. A.; Lee J.; Nakamura, T.; Seo, J.-Y.; Jung, M.; Ozaki, M.; Shimazaki, A.; Shioya, N.; Hasegawa, T.; Murata, Y.; Zakeeruddin, S. M.; Gratzel, M.; Murdey, R.; Wakamiya, A.  
*Chem. Eur. J.* **2019**, *25*, 6741-6752. DOI: 10.1002/chem.201806317
- 199 Donor-Acceptor Polymers Containing Thiazole-Fused Benzothiadiazole Acceptor Units for Organic Solar Cells  
Nakamura, T.; Arakawa, N.; Ishikura, Y.; Hori, M.; Satou, M.; Endo, M.; Masui, H.; Fuse, S.; Takahashi, T.; Murata, Y.; Murdey, R.; Wakamiya, A.  
*RSC Advances* **2019**, *9*, 7107-7114. DOI: 10.1039/c9ra00229d
- 198 Molecular Orientation Change in Naphthalene Diimide Thin Films Induced by Removal of Thermally Cleavable Substituents  
Nakamura, T.; Shioya, N.; Shimoaka, T.; Nishikubo, R.; Hasegawa, T.; Saeki, A.; Murata, Y.; Murdey, R.; Wakamiya, A.  
*Chem. Mater.* **2019**, *31*, 1729-1737. DOI: 10.1021/acs.chemmater.8b05237
- 197 Rotational Motion and Nuclear-Spin Interconversion of H<sub>2</sub>O Encapsulated in C<sub>60</sub> Appeared in the Low-Temperature Heat Capacity  
Suzuki, H.; Nakano, M.; Hashikawa, Y.; Murata, Y.  
*J. Phys. Chem. Lett.* **2019**, *10*, 1306-1311. DOI: 10.1021/acs.jpcclett.9b00311
- 196 Probing the Regioselectivity by Encapsulated H<sub>2</sub>: Diels-Alder Reaction of a Cage-Opened C<sub>60</sub> Derivative with Anthracene  
Hashikawa, Y.; Murata, Y.  
*Chem. Eur. J.* **2019**, *25*, 2482-2485. DOI: 10.1002/chem.201806030
- 195 Mechanochemistry vs. Solution Growth: Striking Differences in Bench Stability of a Cimetidine Salt Based on Synthetic Method  
Ayoub, G.; Strukil, V.; Fabian, L.; Mottillo, C.; Bao, H.; Murata, Y.; Moores, A.; Margetic, D.; Eckert-Maksic, M.; Friscic, T.  
*CrystEngComm* **2018**, *20*, 7274-7247. DOI: 10.1039/C8CE01727A
- 194 Wavelength-Dependent Efficiency of Sequential Photooxygenation: C=C Bond Cleavage on Open-Cage C<sub>60</sub> Derivatives (Special Issue of ISNA-18)  
Hashikawa, Y.; Murata, Y.  
*ChemPlusChem* **2018**, *83*, 1179-1183. DOI: 10.1002/cplu.201800464
- 193 A Single but Hydrogen-Bonded Water Molecule Confined in an Anisotropic Subnanospace  
Hashikawa, Y.; Hasegawa, S.; Murata, Y.  
*Chem. Commun.* **2018**, *54*, 13686-13689. DOI: 10.1039/c8cc07339b.

- 192 High Bending Durability of Efficient Flexible Perovskite Solar Cells Using Metal Oxide Electron Transport Layer  
Yang, F.; Liu, J.; Lim, H. E.; Ishikura, Y.; Shinokita, K.; Miyauchi, Y.; Wakamiya, A.; Murata, Y.; Matsuda, K.  
*J. Phys. Chem. C* **2018**, *122*, 17088-17095. DOI: 10.1021/acs.jpcc.8b05008
- 191 Near-and Mid-IR Gas-Phase Absorption Spectra of  $\text{H}_2@\text{C}_{60}^+$ -He  
Strelnikov, D. V.; Jasik, J.; Gerlich, D.; Murata, M.; Murata, Y.; Komatsu, K.; Kappes, M. M.; Roithova, J.  
*J. Phys. Chem. A* **2018**, *122*, 8162-8166. DOI: 10.1021/acs.jpca.8b06222
- 190 NIR-Absorbing Dye Based on  $\text{BF}_2$ -Bridged Azafulvene Dimer as a Strong Electron-Accepting Unit  
Shimogawa, H.; Murata, Y.; Wakamiya, A.  
*Org. Lett.* **2018**, *20*, 5135-5138. DOI: 10.1021/acs.orglett.8b02056
- 189 Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation  
Liu, J.; Ozaki, M.; Yakumar, S.; Handa, T.; Nishikubo, R.; Kanemitsu, Y.; Saeki, A.; Murata, Y.; Wakamiya, A.  
*Angew. Chem. Int. Ed.* **2018**, *57*, 13221-13225. DOI: 10.1002/anie.201808385
- 188 Construction of a Metal-Free Electron Spin System by Encapsulation of an NO Molecule inside an Open-Cage Fullerene  $\text{C}_{60}$  Derivative  
Hasegawa, S.; Hashikawa, Y.; Kato, T.; Murata, Y.  
*Angew. Chem. Int. Ed.* **2018**, *57*, 12804-12808. DOI: 10.1002/anie.201807823
- 187 Efficient Synthesis and Properties of [1]Benzothieno[3,2-b]thieno[2,3-d]furans and [1]Benzothieno[3,2-b]thieno[2,3-d]thiophenes  
Kurimoto, Y.; Mitsudo, K.; Mandai, H.; Wakamiya, A.; Murata, Y.; Mori, H.; Nishihara, Y.; Suga, S.  
*Asian J. Org. Chem.* **2018**, *7*, 1635-1641. (Cover picture) DOI: 10.1002/ajoc.201800270
- 186 Probing the Interaction between the Encapsulated Water Molecule and the Fullerene Cages in  $\text{H}_2\text{O}@\text{C}_{60}^-$  and  $\text{H}_2\text{O}@\text{C}_{59}\text{N}^-$   
Zhu, G.-Z.; Liu, Y.; Hashikawa, Y.; Zhang, Q.-F.; Murata, Y.; Wang, L.-S.  
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- 185 Roles of Polymer Layer in Enhanced Photovoltaic Performance of Perovskite Solar Cells via Interface Engineering  
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