

Rafal Klajn

List of Publications by Year in descending order

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77
papers

9,029
citations

53794

45
h-index

66911

78
g-index

86
all docs

86
docs citations

86
times ranked

10137
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Self-Complementary Zwitterionic Peptides Direct Nanoparticle Assembly and Enable Enzymatic Selection of Endocytic Pathways. <i>Advanced Materials</i> , 2022, 34, e2104962. | 21.0 | 20 |
| 2 | Coexistence of 1:1 and 2:1 inclusion complexes of indigo carmine. <i>Chemical Communications</i> , 2022, 58, 3461-3464. | 4.1 | 5 |
| 3 | Encapsulation within a coordination cage modulates the reactivity of redox-active dyes. <i>Communications Chemistry</i> , 2022, 5, . | 4.5 | 13 |
| 4 | Polarization-sensitive optoionic membranes from chiral plasmonic nanoparticles. <i>Nature Nanotechnology</i> , 2022, 17, 408-416. | 31.5 | 83 |
| 5 | Electron catalysis expands the supramolecular chemist's toolbox. <i>Chem</i> , 2022, 8, 1183-1186. | 11.7 | 2 |
| 6 | Ternary host-guest complexes with rapid exchange kinetics and photoswitchable fluorescence. <i>Chem</i> , 2022, 8, 2362-2379. | 11.7 | 15 |
| 7 | Light-Responsive Dynamic DNA-Origami-Based Plasmonic Assemblies. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5859-5863. | 13.8 | 75 |
| 8 | Light-Responsive Dynamic DNA-Origami-Based Plasmonic Assemblies. <i>Angewandte Chemie</i> , 2021, 133, 5923-5927. | 2.0 | 10 |
| 9 | Morphology control in crystalline nanoparticle-polymer aggregates. <i>Annals of the New York Academy of Sciences</i> , 2021, , . | 3.8 | 8 |
| 10 | Electrostatic co-assembly of nanoparticles with oppositely charged small molecules into static and dynamic superstructures. <i>Nature Chemistry</i> , 2021, 13, 940-949. | 13.6 | 121 |
| 11 | Dissipative Self-Assembly: Fueling with Chemicals versus Light. <i>Chem</i> , 2021, 7, 23-37. | 11.7 | 112 |
| 12 | The Many Ways to Assemble Nanoparticles Using Light. <i>Advanced Materials</i> , 2020, 32, e1905866. | 21.0 | 70 |
| 13 | Modulating the Optical Properties of BODIPY Dyes by Noncovalent Dimerization within a Flexible Coordination Cage. <i>Journal of the American Chemical Society</i> , 2020, 142, 17721-17729. | 13.7 | 57 |
| 14 | Light-Driven Proton Transfer for Cyclic and Temporal Switching of Enzymatic Nanoreactors. <i>Small</i> , 2020, 16, e2002135. | 10.0 | 34 |
| 15 | Improving Fatigue Resistance of Dihydropyrene by Encapsulation within a Coordination Cage. <i>Journal of the American Chemical Society</i> , 2020, 142, 14557-14565. | 13.7 | 39 |
| 16 | Molecular Photoswitching in Confined Spaces. <i>Accounts of Chemical Research</i> , 2020, 53, 2600-2610. | 15.6 | 86 |
| 17 | Enzymatic Nanoreactors: Light-Driven Proton Transfer for Cyclic and Temporal Switching of Enzymatic Nanoreactors (<i>Small</i> 37/2020). <i>Small</i> , 2020, 16, 2070201. | 10.0 | 1 |
| 18 | Self-Assembly: The Many Ways to Assemble Nanoparticles Using Light (<i>Adv. Mater.</i> 20/2020). <i>Advanced Materials</i> , 2020, 32, 2070154. | 21.0 | 0 |

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|----|---|------|-----------|
| 19 | SQUID-on-tip with single-electron spin sensitivity for high-field and ultra-low temperature nanomagnetic imaging. <i>Nanoscale</i> , 2020, 12, 3174-3182. | 5.6 | 42 |
| 20 | Molecular Factors Controlling the Isomerization of Azobenzenes in the Cavity of a Flexible Coordination Cage. <i>Journal of the American Chemical Society</i> , 2020, 142, 9792-9802. | 13.7 | 75 |
| 21 | Chemical reactivity under nanoconfinement. <i>Nature Nanotechnology</i> , 2020, 15, 256-271. | 31.5 | 403 |
| 22 | Reversible switching of arylazopyrazole within a metal-organic cage. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2398-2407. | 2.2 | 35 |
| 23 | Polysilsesquioxane Nanowire Networks as an "Artificial Solvent" for Reversible Operation of Photochromic Molecules. <i>Nano Letters</i> , 2019, 19, 7106-7111. | 9.1 | 23 |
| 24 | Stimuli-responsive self-assembly of nanoparticles. <i>Chemical Society Reviews</i> , 2019, 48, 1342-1361. | 38.1 | 339 |
| 25 | Supramolecular Control of Azobenzene Switching on Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 1949-1960. | 13.7 | 85 |
| 26 | Dissipative Self-Assembly Driven by the Consumption of Chemical Fuels. <i>Advanced Materials</i> , 2018, 30, e1706750. | 21.0 | 176 |
| 27 | "Precipitation on Nanoparticles": Attractive Intermolecular Interactions Stabilize Specific Ligand Ratios on the Surfaces of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7023-7027. | 13.8 | 17 |
| 28 | Reversible chromism of spiropyran in the cavity of a flexible coordination cage. <i>Nature Communications</i> , 2018, 9, 641. | 12.8 | 148 |
| 29 | Integrating Macromolecules with Molecular Switches. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700827. | 3.9 | 5 |
| 30 | Reversible photoswitching of encapsulated azobenzenes in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9379-9384. | 7.1 | 110 |
| 31 | "Precipitation on Nanoparticles": Attractive Intermolecular Interactions Stabilize Specific Ligand Ratios on the Surfaces of Nanoparticles. <i>Angewandte Chemie</i> , 2018, 130, 7141-7145. | 2.0 | 6 |
| 32 | Clathrates grow up. <i>Science</i> , 2017, 355, 912-912. | 12.6 | 2 |
| 33 | Irreversible Bleaching of Donor-Acceptor Stenhouse Adducts on the Surfaces of Magnetite Nanoparticles. <i>ChemPhotoChem</i> , 2017, 1, 230-236. | 3.0 | 32 |
| 34 | Tunable porous nanoallotropes prepared by post-assembly etching of binary nanoparticle superlattices. <i>Science</i> , 2017, 358, 514-518. | 12.6 | 120 |
| 35 | Chemical systems out of equilibrium. <i>Chemical Society Reviews</i> , 2017, 46, 5474-5475. | 38.1 | 136 |
| 36 | Out-of-Equilibrium Aggregates and Coatings during Seeded Growth of Metallic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 17973-17978. | 13.7 | 62 |

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|----|---|------|-----------|
| 37 | Aqueous Light-Induced Self-Assembly of Nanoparticles. <i>Advanced Optical Materials</i> , 2016, 4, 1373-1377. | 7.3 | 81 |
| 38 | Differing Isomerization Kinetics of Azobenzene-Functionalized Self-Assembled Monolayers in Ambient Air and in Vacuum. <i>Langmuir</i> , 2016, 32, 10795-10801. | 3.5 | 45 |
| 39 | Noncovalent Interactions with Proteins Modify the Physicochemical Properties of a Molecular Switch. <i>ChemPlusChem</i> , 2016, 81, 44-48. | 2.8 | 14 |
| 40 | Controlling the lifetimes of dynamic nanoparticle aggregates by spiropyran functionalization. <i>Nanoscale</i> , 2016, 8, 19280-19286. | 5.6 | 66 |
| 41 | Reversible Photoisomerization of Spiropyran on the Surfaces of Au ₂₅ Nanoclusters. <i>ChemPhysChem</i> , 2016, 17, 1805-1809. | 2.1 | 28 |
| 42 | Borrowing titania's photoinduced electrons for molecular switching. <i>Science China Chemistry</i> , 2016, 59, 420-421. | 8.2 | 2 |
| 43 | Reversible trapping and reaction acceleration within dynamically self-assembling nanoflasks. <i>Nature Nanotechnology</i> , 2016, 11, 82-88. | 31.5 | 305 |
| 44 | Orthogonal Light-Induced Self-Assembly of Nanoparticles using Differently Substituted Azobenzenes. <i>Angewandte Chemie</i> , 2015, 127, 12571-12574. | 2.0 | 42 |
| 45 | Orthogonal Light-Induced Self-Assembly of Nanoparticles using Differently Substituted Azobenzenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12394-12397. | 13.8 | 132 |
| 46 | Titelbild: Orthogonal Light-Induced Self-Assembly of Nanoparticles using Differently Substituted Azobenzenes (<i>Angew. Chem.</i> 42/2015). <i>Angewandte Chemie</i> , 2015, 127, 12347-12347. | 2.0 | 2 |
| 47 | Tailoring the Properties of Surface-Immobilized Azobenzenes by Monolayer Dilution and Surface Curvature. <i>Langmuir</i> , 2015, 31, 1048-1057. | 3.5 | 71 |
| 48 | Light-controlled self-assembly of non-photoresponsive nanoparticles. <i>Nature Chemistry</i> , 2015, 7, 646-652. | 13.6 | 440 |
| 49 | Magnetic field-induced self-assembly of iron oxide nanocubes. <i>Faraday Discussions</i> , 2015, 181, 403-421. | 3.2 | 56 |
| 50 | Dual-responsive nanoparticles that aggregate under the simultaneous action of light and CO ₂ . <i>Chemical Communications</i> , 2015, 51, 2036-2039. | 4.1 | 54 |
| 51 | Spiropyran-based dynamic materials. <i>Chemical Society Reviews</i> , 2014, 43, 148-184. | 38.1 | 1,571 |
| 52 | Support Curvature and Conformational Freedom Control Chemical Reactivity of Immobilized Species. <i>Journal of the American Chemical Society</i> , 2014, 136, 2711-2714. | 13.7 | 61 |
| 53 | Nanoporous frameworks exhibiting multiple stimuli responsiveness. <i>Nature Communications</i> , 2014, 5, 3588. | 12.8 | 146 |
| 54 | Cyclic Kinetics during Thermal Equilibration of an Axially Chiral Bis-Spiropyran. <i>Journal of the American Chemical Society</i> , 2014, 136, 11276-11279. | 13.7 | 28 |

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|----|--|------|-----------|
| 55 | Self-assembly of magnetite nanocubes into helical superstructures. <i>Science</i> , 2014, 345, 1149-1153. | 12.6 | 435 |
| 56 | Dual-Responsive Nanoparticles and their Self-Assembly. <i>Advanced Materials</i> , 2013, 25, 422-426. | 21.0 | 123 |
| 57 | Photocontrol of Electrical Conductance with a Nonsymmetrical Azobenzene Dithiol. <i>Synlett</i> , 2013, 24, 2370-2374. | 1.8 | 11 |
| 58 | Nanoparticles: Dual-Responsive Nanoparticles and their Self-Assembly (Adv. Mater. 3/2013). <i>Advanced Materials</i> , 2013, 25, 492-492. | 21.0 | 1 |
| 59 | Dynamically Self-Assembling Carriers Enable Guiding of Diamagnetic Particles by Weak Magnets. <i>Journal of the American Chemical Society</i> , 2012, 134, 19564-19567. | 13.7 | 67 |
| 60 | Metallic Nanobowls by Galvanic Replacement Reaction on Heterodimeric Nanoparticles. <i>Small</i> , 2012, 8, 654-660. | 10.0 | 46 |
| 61 | Metallic Nanobowls: Metallic Nanobowls by Galvanic Replacement Reaction on Heterodimeric Nanoparticles (Small 5/2012). <i>Small</i> , 2012, 8, 622-622. | 10.0 | 0 |
| 62 | Immobilized azobenzenes for the construction of photoresponsive materials. <i>Pure and Applied Chemistry</i> , 2010, 82, 2247-2279. | 1.9 | 190 |
| 63 | Molecular-Mechanical Switching at the Nanoparticle-Solvent Interface: Practice and Theory. <i>Journal of the American Chemical Society</i> , 2010, 132, 4310-4320. | 13.7 | 61 |
| 64 | Nanoparticles functionalised with reversible molecular and supramolecular switches. <i>Chemical Society Reviews</i> , 2010, 39, 2203. | 38.1 | 484 |
| 65 | Innentitelbild: Writing Self-Erasing Images using Metastable Nanoparticle Inks (Angew. Chem.) <i>Tj ETQq1 1 0,784314 rgBT /Overlo</i> | 2.0 | 1 |
| 66 | Inside Cover: Writing Self-Erasing Images using Metastable Nanoparticle Inks (Angew. Chem. Int. Ed.) <i>Tj ETQq0,0 0 rgBT /Overlo</i> | 18.8 | 1 |
| 67 | Photoconductance and inverse photoconductance in films of functionalized metal nanoparticles. <i>Nature</i> , 2009, 460, 371-375. | 27.8 | 239 |
| 68 | Dynamic hook-and-eye nanoparticle sponges. <i>Nature Chemistry</i> , 2009, 1, 733-738. | 13.6 | 114 |
| 69 | Metal Nanoparticles Functionalized with Molecular and Supramolecular Switches. <i>Journal of the American Chemical Society</i> , 2009, 131, 4233-4235. | 13.7 | 119 |
| 70 | Assembly of Polygonal Nanoparticle Clusters Directed by Reversible Noncovalent Bonding Interactions. <i>Nano Letters</i> , 2009, 9, 3185-3190. | 9.1 | 82 |
| 71 | Writing Self-Erasing Images using Metastable Nanoparticle Inks, <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7035-7039. | 13.8 | 344 |
| 72 | Bulk Synthesis and Surface Patterning of Nanoporous Metals and Alloys from Supraspherical Nanoparticle Aggregates. <i>Advanced Functional Materials</i> , 2008, 18, 2763-2769. | 14.9 | 46 |

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|----|--|------|-----------|
| 73 | Light-controlled self-assembly of reversible and irreversible nanoparticle suprastructures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10305-10309. | 7.1 | 384 |
| 74 | Synthesis of Heterodimeric Sphereâ€“Prism Nanostructures via Metastable Gold Supraspheres. Angewandte Chemie - International Edition, 2007, 46, 8363-8367. | 13.8 | 44 |
| 75 | Plastic and Moldable Metals by Self-Assembly of Sticky Nanoparticle Aggregates. Science, 2007, 316, 261-264. | 12.6 | 270 |
| 76 | Ionic-like Behavior of Oppositely Charged Nanoparticles. Journal of the American Chemical Society, 2006, 128, 15046-15047. | 13.7 | 107 |
| 77 | Color Micro- and Nanopatterning with Counter-Propagating Reaction-Diffusion Fronts. Advanced Materials, 2004, 16, 1912-1917. | 21.0 | 31 |