Itamar Willner

List of Publications by Year in Descending Order

481 papers	44,390 citations	118 h-index	193 g-index
500 ext. papers	48,131 ext. citations	12 avg, IF	8.02 L-index

#	Paper	IF	Citations
481	Controlling electrocatalytic, photoelectrocatalytic, and load release processes using soft material-modified electrodes. *Journal of Electroanalytical Chemistry*, **2022**, 904, 115926	4.1	0
480	Enzyme-Loaded Hemin/G-Quadruplex-Modified ZIF-90 Metal-Organic Framework Nanoparticles: Bioreactor Nanozymes for the Cascaded Oxidation of N-hydroxy-l-arginine and Sensing Applications.. *Small*, **2022**, e2104420	11	5
479	MOF-templated synthesis of cobalt-doped zinc oxide superparticles for detection of the 3-hydroxy-2-butanone microbial biomarker. *Sensors and Actuators B: Chemical*, **2022**, 358, 131482	8.5	1
478	Frontispiece: Bioinspired Artificial Photosynthetic Systems. *Chemistry - A European Journal*, **2022**, 28,	4.8	1
477	Au -Functionalized UiO-67 Metal-Organic Framework Nanoparticles: O and ⁻OH Generating Nanozymes and Their Antibacterial Functions.. *Small*, **2022**, e2200548	11	2
476	Switchable DNA Origami Nanostructures and Their Applications **2022**, 197-240		
475	Dissipative biocatalytic cascades and gated transient biocatalytic cascades driven by nucleic acid networks.. *Science Advances*, **2022**, 8, eabn3534	14.3	4
474	Aptamer-modified DNA tetrahedra-gated metal-organic framework nanoparticle carriers for enhanced chemotherapy or photodynamic therapy. *Chemical Science*, **2021**, 12, 14473-14483	9.4	10
473	Transient Dissipative Optical Properties of Aggregated Au Nanoparticles, CdSe/ZnS Quantum Dots, and Supramolecular Nucleic Acid-Stabilized Ag Nanoclusters. *Journal of the American Chemical Society*, **2021**, 143, 17622-17632	16.4	10
472	Dissipative Gated and Cascaded DNA Networks. *Journal of the American Chemical Society*, **2021**, 143, 5071-5079	16.4	17
471	pH- and miRNA-Responsive DNA-Tetrahedra/Metal-Organic Framework Conjugates: Functional Sense-and-Treat Carriers. *ACS Nano*, **2021**, 15, 6645-6657	16.7	21
470	Spatiotemporal patterning of photoresponsive DNA-based hydrogels to tune local cell responses. *Nature Communications*, **2021**, 12, 2364	17.4	15
469	Aptamer-Modified Cu-Functionalized C-Dots: Versatile Means to Improve Nanozyme Activities-"Aptananozymes". *Journal of the American Chemical Society*, **2021**, 143, 11510-11519	16.4	11
468	Mimicking Functions of Native Enzymes or Photosynthetic Reaction Centers by Nucleoapzymes and Photonucleoapzymes. *Biochemistry*, **2021**, 60, 956-965	3.2	3
467	Dictated Emergence of Nucleic Acid-Based Constitutional Dynamic Networks by DNA Replication Machineries. *Journal of the American Chemical Society*, **2021**, 143, 241-251	16.4	5
466	Multiplexed and amplified chemiluminescence resonance energy transfer (CRET) detection of genes and microRNAs using dye-loaded hemin/G-quadruplex-modified UiO-66 metal-organic framework nanoparticles. *Chemical Science*, **2021**, 12, 4810-4818	9.4	8
465	DNAzyme- and light-induced dissipative and gated DNA networks. *Chemical Science*, **2021**, 12, 11204-11212	9.4	10

464	DNA-based constitutional dynamic networks as functional modules for logic gates and computing circuit operations. *Chemical Science*, **2021**, 12, 5473-5483	9.4	4
463	Stimuli-responsive metal-organic framework nanoparticles for controlled drug delivery and medical applications. *Chemical Society Reviews*, **2021**, 50, 4541-4563	58.5	52
462	Triggered Dimerization and Trimerization of DNA Tetrahedra for Multiplexed miRNA Detection and Imaging of Cancer Cells. *Small*, **2021**, 17, e2007355	11	13
461	Aptamer-Functionalized Micro- and Nanocarriers for Controlled Release. *ACS Applied Materials & Interfaces*, **2021**, 13, 9520-9541	9.5	18
460	Aptamer-Functionalized Hybrid Nanostructures for Sensing, Drug Delivery, Catalysis and Mechanical Applications. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
459	Integration of photocatalytic and dark-operating catalytic biomimetic transformations through DNA-based constitutional dynamic networks. *Nature Communications*, **2021**, 12, 4224	17.4	0
458	Gated Dissipative Dynamic Artificial Photosynthetic Model Systems. *Journal of the American Chemical Society*, **2021**, 143, 12120-12128	16.4	5
457	Imaging of Cancer Cells and Dictated Cytotoxicity Using Aptamer-Guided Hybridization Chain Reaction (HCR)-Generated G-Quadruplex Chains. *Angewandte Chemie - International Edition*, **2021**, 60, 21673-21678	16.4	7
456	Imaging of Cancer Cells and Dictated Cytotoxicity Using Aptamer-Guided Hybridization Chain Reaction (HCR)-Generated G-Quadruplex Chains. *Angewandte Chemie*, **2021**, 133, 21841-21846	3.6	1
455	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in Chlorella ohadii. *Nature Plants*, **2021**, 7, 1314-1322	11.5	4
454	Redox-responsive and light-responsive DNA-based hydrogels and their applications. *Reactive and Functional Polymers*, **2021**, 166, 104983	4.6	3
453	Stimuli-responsive hydrogel microcapsules for the amplified detection of microRNAs. *Nanoscale*, **2021**, 13, 16799-16808	7.7	6
452	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. *Journal of the American Chemical Society*, **2020**, 142, 21577-21594	16.4	16
451	Constitutional Dynamic Networks-Guided Synthesis of Programmed "Genes", Transcription of mRNAs, and Translation of Proteins. *Journal of the American Chemical Society*, **2020**, 142, 21460-21468	16.4	6
450	Thermoplasmonic-Triggered Release of Loads from DNA-Modified Hydrogel Microcapsules Functionalized with Au Nanoparticles or Au Nanorods. *Small*, **2020**, 16, e2000880	11	17
449	Near-infrared light-activated membrane fusion for cancer cell therapeutic applications. *Chemical Science*, **2020**, 11, 5592-5600	9.4	18
448	Biocatalytic reversible control of the stiffness of DNA-modified responsive hydrogels: applications in shape-memory, self-healing and autonomous controlled release of insulin. *Chemical Science*, **2020**, 11, 4516-4524	9.4	12
447	Enzyme-Guided Selection and Cascaded Emergence of Nanostructured Constitutional Dynamic Networks. *Nano Letters*, **2020**, 20, 5451-5457	11.5	5

446	DNA Tetrahedra Modules as Versatile Optical Sensing Platforms for Multiplexed Analysis of miRNAs, Endonucleases, and Aptamer-Ligand Complexes. *ACS Nano*, **2020**, 14, 9021-9031	16.7	45
445	Single and Bilayer Polyacrylamide Hydrogel-Based Microcapsules for the Triggered Release of Loads, Logic Gate Operations, and Intercommunication between Microcapsules. *ACS Applied Materials & Interfaces*, **2020**, 12, 31124-31136	9.5	14
444	Biocatalytic cascades operating on macromolecular scaffolds and in confined environments. *Nature Catalysis*, **2020**, 3, 256-273	36.5	86
443	Modelling Photosynthesis with ZnII-Protoporphyrin All-DNA G-Quadruplex/Aptamer Scaffolds. *Angewandte Chemie*, **2020**, 132, 9248-9255	3.6	3
442	Triggered Release of Loads from Microcapsule-in-Microcapsule Hydrogel Microcarriers: En-Route to an "Artificial Pancreas". *Journal of the American Chemical Society*, **2020**, 142, 4223-4234	16.4	29
441	Modelling Photosynthesis with Zn -Protoporphyrin All-DNA G-Quadruplex/Aptamer Scaffolds. *Angewandte Chemie - International Edition*, **2020**, 59, 9163-9170	16.4	7
440	MicroRNA-Guided Selective Release of Loads from Micro-/Nanocarriers Using Auxiliary Constitutional Dynamic Networks. *ACS Nano*, **2020**, 14, 1482-1491	16.7	14
439	High-performance biosensing based on autonomous enzyme-free DNA circuits. *Topics in Current Chemistry*, **2020**, 378, 20	7.2	17
438	Modeling Gene Expression Instability by Programmed and Switchable Polymerization/Nicking DNA Nanomachineries. *ACS Nano*, **2020**, 14, 5046-5052	16.7	6
437	Functional DNA Structures and Their Biomedical Applications. *CCS Chemistry*, **2020**, 2, 707-728	7.2	18
436	Stimuliresponsive, auf Biomolekülen basierende Hydrogele und ihre Anwendungen. *Angewandte Chemie*, **2020**, 132, 15458-15496	3.6	10
435	Stimuli-Responsive Biomolecule-Based Hydrogels and Their Applications. *Angewandte Chemie - International Edition*, **2020**, 59, 15342-15377	16.4	110
434	Controlling biocatalytic cascades with enzyme–DNA dynamic networks. *Nature Catalysis*, **2020**, 3, 941-950	36.5	18
433	Functional Constitutional Dynamic Networks Revealing Evolutionary Reproduction/Variation/Selection Principles. *Journal of the American Chemical Society*, **2020**, 142, 14437-14442	16.4	4
432	Dissipative Constitutional Dynamic Networks for Tunable Transient Responses and Catalytic Functions. *Journal of the American Chemical Society*, **2020**, 142, 17480-17488	16.4	21
431	A Bis-Zn -Pyridyl-Salen-Type Complex Conjugated to the ATP Aptamer: An ATPase-Mimicking Nucleoapzyme. *ChemBioChem*, **2020**, 21, 53-58	3.8	11
430	Programmed catalysis within stimuli-responsive mechanically unlocked nanocavities in DNA origami tiles. *Chemical Science*, **2020**, 12, 341-351	9.4	3
429	Nucleoapzymes: catalyst-aptamer conjugates as enzyme-mimicking structures. *Emerging Topics in Life Sciences*, **2019**, 3, 493-499	3.5	0

428	Redox-Switchable Binding Properties of the ATP-Aptamer. *Journal of the American Chemical Society* , **2019**, 141, 15567-15576	16.4	26
427	Three-Dimensional Nucleic-Acid-Based Constitutional Dynamic Networks: Enhancing Diversity through Complexity of the Systems. *Journal of the American Chemical Society*, **2019**, 141, 16461-16470	16.4	12
426	Triggered Interconversion of Dynamic Networks Composed of DNA-Tetrahedra Nanostructures. *Nano Letters*, **2019**, 19, 7540-7547	11.5	18
425	Chemical and photochemical DNA "gears" reversibly control stiffness, shape-memory, self-healing and controlled release properties of polyacrylamide hydrogels. *Chemical Science*, **2019**, 10, 1008-1016	9.4	60
424	Metal Ion-Terpyridine-Functionalized L-Tyrosinamide Aptamers: Nucleoapzymes for Oxygen Insertion into C?H Bonds and the Transformation of L-Tyrosinamide into Amidodopachrome. *Advanced Functional Materials*, **2019**, 29, 1901484	15.6	8
423	Evolution of Nucleic-Acid-Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. *Angewandte Chemie - International Edition*, **2019**, 58, 12238-12245	16.4	7
422	Triggered reversible substitution of adaptive constitutional dynamic networks dictates programmed catalytic functions. *Science Advances*, **2019**, 5, eaav5564	14.3	15
421	miRNA-Specific Unlocking of Drug-Loaded Metal-Organic Framework Nanoparticles: Targeted Cytotoxicity toward Cancer Cells. *Small*, **2019**, 15, e1900935	11	28
420	Consecutive feedback-driven constitutional dynamic networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2843-2848	11.5	25
419	Anti-VEGF-Aptamer Modified C-Dots-A Hybrid Nanocomposite for Topical Treatment of Ocular Vascular Disorders. *Small*, **2019**, 15, e1902776	11	33
418	Artificial Photosynthesis with Electron Acceptor/Photosensitizer-Aptamer Conjugates. *Nano Letters* , **2019**, 19, 6621-6628	11.5	6
417	Molecularly Imprinted Sites Translate into Macroscopic Shape-Memory Properties of Hydrogels. *ACS Applied Materials & Interfaces*, **2019**, 11, 34282-34291	9.5	11
416	Evolution of Nucleic-Acid-Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. *Angewandte Chemie*, **2019**, 131, 12366-12373	3.6	6
415	Light-responsive arylazopyrazole-based hydrogels: their applications as shape-memory materials, self-healing matrices and controlled drug release systems. *Polymer Chemistry*, **2019**, 10, 4106-4115	4.9	29
414	Active generation of nanoholes in DNA origami scaffolds for programmed catalysis in nanocavities. *Nature Communications*, **2019**, 10, 4963	17.4	22
413	Stiffness-switchable DNA-based constitutional dynamic network hydrogels for self-healing and matrix-guided controlled chemical processes. *Nature Communications*, **2019**, 10, 4774	17.4	48
412	DNA-Based Hydrogels Loaded with Au Nanoparticles or Au Nanorods: Thermoresponsive Plasmonic Matrices for Shape-Memory, Self-Healing, Controlled Release, and Mechanical Applications. *ACS Nano*, **2019**, 13, 3424-3433	16.7	71
411	Photosensitized H Evolution and NADPH Formation by Photosensitizer/Carbon Nitride Hybrid Nanoparticles. *Nano Letters*, **2019**, 19, 9121-9130	11.5	6

410	Thrombin Aptamer-Modified Metal-Organic Framework Nanoparticles: Functional Nanostructures for Sensing Thrombin and the Triggered Controlled Release of Anti-Blood Clotting Drugs. *Sensors*, **2019**, 19,	3.8	14
409	Two-Photon Lithographic Patterning of DNA-Coated Single-Microparticle Surfaces. *Nano Letters*, **2019**, 19, 618-625	11.5	15
408	Enzyme-Driven Release of Loads from Nucleic Acid□Capped Metal□Organic Framework Nanoparticles. *Advanced Functional Materials*, **2019**, 29, 1805341	15.6	33
407	Redox-triggered hydrogels revealing switchable stiffness properties and shape-memory functions. *Polymer Chemistry*, **2018**, 9, 2905-2912	4.9	27
406	Smart DNA Hydrogel Integrated Nanochannels with High Ion Flux and Adjustable Selective Ionic Transport. *Angewandte Chemie*, **2018**, 130, 7916-7920	3.6	10
405	Smart DNA Hydrogel Integrated Nanochannels with High Ion Flux and Adjustable Selective Ionic Transport. *Angewandte Chemie - International Edition*, **2018**, 57, 7790-7794	16.4	71
404	Drug Carriers: Stimuli-Responsive Nucleic Acid-Based Polyacrylamide Hydrogel-Coated Metal□Organic Framework Nanoparticles for Controlled Drug Release (Adv. Funct. Mater. 8/2018). *Advanced Functional Materials*, **2018**, 28, 1870053	15.6	8
403	Targeted VEGF-triggered release of an anti-cancer drug from aptamer-functionalized metal-organic framework nanoparticles. *Nanoscale*, **2018**, 10, 4650-4657	7.7	48
402	Cu2+ or Fe3+ Terpyridine/Aptamer Conjugates: Nucleoapzymes Catalyzing the Oxidation of Dopamine to Aminochrome. *ACS Catalysis*, **2018**, 8, 1802-1809	13.1	31
401	Light-Induced Reversible Reconfiguration of DNA-Based Constitutional Dynamic Networks: Application to Switchable Catalysis. *Angewandte Chemie*, **2018**, 130, 8237-8241	3.6	11
400	Light-Induced Reversible Reconfiguration of DNA-Based Constitutional Dynamic Networks: Application to Switchable Catalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 8105-8109	16.4	45
399	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. *Nano Letters*, **2018**, 18, 2718-2724	11.5	19
398	Biocatalytic cascades driven by enzymes encapsulated in metal□organic framework nanoparticles. *Nature Catalysis*, **2018**, 1, 689-695	36.5	309
397	Shape-memory and self-healing functions of DNA-based carboxymethyl cellulose hydrogels driven by chemical or light triggers. *Chemical Science*, **2018**, 9, 7145-7152	9.4	64
396	Stimuli-Responsive Donor□Acceptor and DNA-Crosslinked Hydrogels: Application as Shape-Memory and Self-Healing Materials. *Advanced Functional Materials*, **2018**, 28, 1803111	15.6	49
395	Photoactivated Specific mRNA Detection in Single Living Cells by Coupling "Signal-on" Fluorescence and "Signal-off" Electrochemical Signals. *Nano Letters*, **2018**, 18, 5116-5123	11.5	39
394	Application of DNA Machineries for the Barcode Patterned Detection of Genes or Proteins. *Analytical Chemistry*, **2018**, 90, 6468-6476	7.8	7
393	Catalyzed and Electrocatalyzed Oxidation of l-Tyrosine and l-Phenylalanine to Dopachrome by Nanozymes. *Nano Letters*, **2018**, 18, 4015-4022	11.5	23

392	DNA-Responsive SiO Nanoparticles, Metal-Organic Frameworks, and Microcapsules for Controlled Drug Release. *Langmuir*, **2018**, 34, 14692-14710	4	38
391	Stimuli-Responsive Nucleic Acid-Based Polyacrylamide Hydrogel-Coated Metal Organic Framework Nanoparticles for Controlled Drug Release. *Advanced Functional Materials*, **2018**, 28, 1705137	15.6	151
390	Cu -Modified Metal-Organic Framework Nanoparticles: A Peroxidase-Mimicking Nanoenzyme. *Small* , **2018**, 14, 1703149	11	89
389	Multi-triggered Supramolecular DNA/Bipyridinium Dithienylethene Hydrogels Driven by Light, Redox, and Chemical Stimuli for Shape-Memory and Self-Healing Applications. *Journal of the American Chemical Society*, **2018**, 140, 17691-17701	16.4	96
388	Triggered Reversible Reconfiguration of G-Quadruplex-Bridged "Domino"-Type Origami Dimers: Application of the Systems for Programmed Catalysis. *ACS Nano*, **2018**, 12, 12324-12336	16.7	24
387	Controlling the Catalytic and Optical Properties of Aggregated Nanoparticles or Semiconductor Quantum Dots Using DNA-Based Constitutional Dynamic Networks. *ACS Nano*, **2018**, 12, 10725-10735	16.7	30
386	Probing ATP/ATP-Aptamer or ATP-Aptamer Mutant Complexes by Microscale Thermophoresis and Molecular Dynamics Simulations: Discovery of an ATP-Aptamer Sequence of Superior Binding Properties. *Journal of Physical Chemistry B*, **2018**, 122, 9102-9109	3.4	25
385	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. *Journal of the American Chemical Society*, **2018**, 140, 12077-12089	16.4	30
384	Intercommunication of DNA-Based Constitutional Dynamic Networks. *Journal of the American Chemical Society*, **2018**, 140, 8721-8731	16.4	32
383	Glucose-Responsive Metal-Organic-Framework Nanoparticles Act as "Smart" Sense-and-Treat Carriers. *ACS Nano*, **2018**, 12, 7538-7545	16.7	137
382	pH- and ligand-induced release of loads from DNA-acrylamide hydrogel microcapsules. *Chemical Science*, **2017**, 8, 3362-3373	9.4	100
381	Clamped Hybridization Chain Reactions for the Self-Assembly of Patterned DNA Hydrogels. *Angewandte Chemie*, **2017**, 129, 2203-2207	3.6	18
380	Clamped Hybridization Chain Reactions for the Self-Assembly of Patterned DNA Hydrogels. *Angewandte Chemie - International Edition*, **2017**, 56, 2171-2175	16.4	107
379	Mimicking Horseradish Peroxidase Functions Using Cu-Modified Carbon Nitride Nanoparticles or Cu-Modified Carbon Dots as Heterogeneous Catalysts. *ACS Nano*, **2017**, 11, 3247-3253	16.7	226
378	Stimuli-Responsive DNA-Based Hydrogels: From Basic Principles to Applications. *Accounts of Chemical Research*, **2017**, 50, 680-690	24.3	266
377	Mimicking Horseradish Peroxidase and NADH Peroxidase by Heterogeneous Cu-Modified Graphene Oxide Nanoparticles. *Nano Letters*, **2017**, 17, 2043-2048	11.5	151
376	Stimuli-Controlled Hydrogels and Their Applications. *Accounts of Chemical Research*, **2017**, 50, 657-658	24.3	69
375	Triplex-DNA-Nanostrukturen: von grundlegenden Eigenschaften zu Anwendungen. *Angewandte Chemie*, **2017**, 129, 15410-15434	3.6	34

374	Triplex DNA Nanostructures: From Basic Properties to Applications. *Angewandte Chemie - International Edition*, **2017**, 56, 15210-15233	16.4	177
373	Controlling the Catalytic Functions of DNAzymes within Constitutional Dynamic Networks of DNA Nanostructures. *Journal of the American Chemical Society*, **2017**, 139, 9662-9671	16.4	47
372	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
371	Stimuli-Responsive DNA-Functionalized Metal-Organic Frameworks (MOFs). *Advanced Materials*, **2017**, 29, 1602782	24	167
370	Continuous variables logic coupled automata using a DNAzyme cascade with feedback. *Chemical Science*, **2017**, 8, 2161-2168	9.4	21
369	Programmed dissociation of dimer and trimer origami structures by aptamer-ligand complexes. *Nanoscale*, **2017**, 9, 1416-1422	7.7	28
368	Drug Delivery: ATP-Responsive Aptamer-Based Metal□Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs (Adv. Funct. Mater. 37/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	2
367	Synthesis and Applications of Stimuli-Responsive DNA-Based Nano- and Micro-Sized Capsules. *Advanced Functional Materials*, **2017**, 27, 1702732	15.6	34
366	ATP-Responsive Aptamer-Based Metal□Organic Framework Nanoparticles (NMOFs) for the Controlled Release of Loads and Drugs. *Advanced Functional Materials*, **2017**, 27, 1702102	15.6	113
365	Chiroplasmonic DNA-based nanostructures. *Nature Reviews Materials*, **2017**, 2,	73.3	88
364	Coherent electronic and nuclear dynamics in a rhodamine heterodimer-DNA supramolecular complex. *Physical Chemistry Chemical Physics*, **2017**, 19, 23043-23051	3.6	20
363	DNA Switches and Machines **2017**, 434-473		
362	Orthogonal Operation of Constitutional Dynamic Networks Consisting of DNA-Tweezer Machines. *ACS Nano*, **2017**, 11, 12027-12036	16.7	35
361	Stimuli-responsive nucleic acid-functionalized metal-organic framework nanoparticles using pH- and metal-ion-dependent DNAzymes as locks. *Chemical Science*, **2017**, 8, 5769-5780	9.4	131
360	Mimicking Peroxidase Activities with Prussian Blue Nanoparticles and Their Cyanometalate Structural Analogues. *Nano Letters*, **2017**, 17, 4958-4963	11.5	69
359	Donor/Acceptor-Modified Electrodes for Photoelectrochemical and Photobioelectrochemical Applications. *Advanced Functional Materials*, **2016**, 26, 7148-7155	15.6	26
358	Orthogonal Dual-Triggered Shape-Memory DNA-Based Hydrogels. *Chemistry - A European Journal*, **2016**, 22, 14504-7	4.8	29
357	Programmed pH-Responsive Microcapsules for the Controlled Release of CdSe/ZnS Quantum Dots. *ACS Nano*, **2016**, 10, 8683-9	16.7	52

356	DNA Scaffolds for the Dictated Assembly of Left-/Right-Handed Plasmonic Au NP Helices with Programmed Chiro-Optical Properties. *Journal of the American Chemical Society*, **2016**, 138, 9895-901	16.4	40
355	Reversible Modulation of DNA-Based Hydrogel Shapes by Internal Stress Interactions. *Journal of the American Chemical Society*, **2016**, 138, 16112-16119	16.4	80
354	Assembly of photo-bioelectrochemical cells using photosystem I-functionalized electrodes. *Nature Energy*, **2016**, 1,	62.3	55
353	Light-Responsive and pH-Responsive DNA Microcapsules for Controlled Release of Loads. *Journal of the American Chemical Society*, **2016**, 138, 8936-45	16.4	157
352	Controlled Vectorial Electron Transfer and Photoelectrochemical Applications of Layered Relay/Photosensitizer-Imprinted Au Nanoparticle Architectures on Electrodes. *Small*, **2016**, 12, 1605-14	11	9
351	Drug Delivery: The Application of Stimuli-Responsive VEGF- and ATP-Aptamer-Based Microcapsules for the Controlled Release of an Anticancer Drug, and the Selective Targeted Cytotoxicity toward Cancer Cells (Adv. Funct. Mater. 24/2016). *Advanced Functional Materials*, **2016**, 26, 4423-4423	15.6	1
350	Nucleoapzymes: Hemin/G-Quadruplex DNAzyme-Aptamer Binding Site Conjugates with Superior Enzyme-like Catalytic Functions. *Journal of the American Chemical Society*, **2016**, 138, 164-72	16.4	172
349	Supramolecular micelle-based nucleoapzymes for the catalytic oxidation of dopamine to aminochrome. *Chemical Communications*, **2016**, 52, 5561-4	5.8	9
348	Rational design of supramolecular hemin/G-quadruplex-dopamine aptamer nucleoapzyme systems with superior catalytic performance. *Chemical Science*, **2016**, 7, 3092-3101	9.4	50
347	Block Copolymer Patterns as Templates for the Electrocatalyzed Deposition of Nanostructures on Electrodes and for the Generation of Surfaces of Controlled Wettability. *ACS Applied Materials & Interfaces*, **2016**, 8, 1440-6	9.5	10
346	Switchable supramolecular catalysis using DNA-templated scaffolds. *Chemical Communications*, **2016**, 52, 2153-6	5.8	11
345	The Application of Stimuli-Responsive VEGF- and ATP-Aptamer-Based Microcapsules for the Controlled Release of an Anticancer Drug, and the Selective Targeted Cytotoxicity toward Cancer Cells. *Advanced Functional Materials*, **2016**, 26, 4262-4273	15.6	69
344	A Shape-Memory DNA-Based Hydrogel Exhibiting Two Internal Memories. *Angewandte Chemie - International Edition*, **2016**, 55, 4210-4	16.4	84
343	A Shape-Memory DNA-Based Hydrogel Exhibiting Two Internal Memories. *Angewandte Chemie*, **2016**, 128, 4282-4286	3.6	22
342	Metal Nanoparticles: Layered Metal Nanoparticle Structures on Electrodes for Sensing, Switchable Controlled Uptake/Release, and Photo-electrochemical Applications (Small 1/2016). *Small*, **2016**, 12, 2-2	11	1
341	Recent Advances in the Synthesis and Functions of Reconfigurable Interlocked DNA Nanostructures. *Journal of the American Chemical Society*, **2016**, 138, 5172-85	16.4	72
340	Layered Metal Nanoparticle Structures on Electrodes for Sensing, Switchable Controlled Uptake/Release, and Photo-electrochemical Applications. *Small*, **2016**, 12, 51-75	11	17
339	Programmed pH-Driven Reversible Association and Dissociation of Interconnected Circular DNA Dimer Nanostructures. *Nano Letters*, **2016**, 16, 4590-4	11.5	34

338	Gossypol-Capped Mitoxantrone-Loaded Mesoporous SiO2 NPs for the Cooperative Controlled Release of Two Anti-Cancer Drugs. *ACS Applied Materials & Interfaces*, **2016**, 8, 14414-22	9.5	16
337	DNAzyme-Controlled Cleavage of Dimer and Trimer Origami Tiles. *Nano Letters*, **2016**, 16, 2867-72	11.5	38
336	pH-Stimulated Reconfiguration and Structural Isomerization of Origami Dimer and Trimer Systems. *Nano Letters*, **2016**, 16, 6650-6655	11.5	65
335	Catalytic nucleic acids (DNAzymes) as functional units for logic gates and computing circuits: from basic principles to practical applications. *Chemical Communications*, **2015**, 51, 4144-60	5.8	115
334	Computational docking simulations of a DNA-aptamer for argininamide and related ligands. *Journal of Computer-Aided Molecular Design*, **2015**, 29, 643-54	4.2	32
333	Programmed DNAzyme-Triggered Dissolution of DNA-Based Hydrogels: Means for Controlled Release of Biocatalysts and for the Activation of Enzyme Cascades. *ACS Applied Materials & Interfaces*, **2015**, 7, 8923-31	9.5	73
332	pH-responsive and switchable triplex-based DNA hydrogels. *Chemical Science*, **2015**, 6, 4190-4195	9.4	102
331	Ternary DNA computing using 3 □ multiplication matrices. *Chemical Science*, **2015**, 6, 1288-1292	9.4	36
330	Addressing, amplifying and switching DNAzyme functions by electrochemically-triggered release of metal ions. *Chemical Science*, **2015**, 6, 3544-3549	9.4	21
329	Metalloporphyrin/G-quadruplexes: From basic properties to practical applications. *Journal of Porphyrins and Phthalocyanines*, **2015**, 19, 65-91	1.8	25
328	Integration of Switchable DNA-Based Hydrogels with Surfaces by the Hybridization Chain Reaction. *Nano Letters*, **2015**, 15, 7773-8	11.5	115
327	Hemin-G-quadruplex-crosslinked poly--isopropylacrylamide hydrogel: a catalytic matrix for the deposition of conductive polyaniline. *Chemical Science*, **2015**, 6, 6659-6664	9.4	50
326	Adenosine Triphosphate-Triggered Release of Macromolecular and Nanoparticle Loads from Aptamer/DNA-Cross-Linked Microcapsules. *ACS Nano*, **2015**, 9, 9078-86	16.7	82
325	Switchable Reconfiguration of a Seven-Ring Interlocked DNA Catenane Nanostructure. *Nano Letters*, **2015**, 15, 7133-7	11.5	39
324	Multitriggered Shape-Memory Acrylamide-DNA Hydrogels. *Journal of the American Chemical Society* , **2015**, 137, 15723-31	16.4	122
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