

# Young Jun Seo

## List of Publications by Year in descending order

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58  
papers

1,147  
citations

471509

17  
h-index

414414

32  
g-index

60  
all docs

60  
docs citations

60  
times ranked

943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of an Unnatural Base Pair toward Natural-Like Replication. <i>Journal of the American Chemical Society</i> , 2009, 131, 3246-3252.	13.7	117
2	Transcription of an Expanded Genetic Alphabet. <i>Journal of the American Chemical Society</i> , 2009, 131, 5046-5047.	13.7	111
3	Quencher-Free, End-Stacking Oligonucleotides for Probing Single-Base Mismatches in DNA. <i>Organic Letters</i> , 2005, 7, 4931-4933.	4.6	95
4	Site-Specific Labeling of DNA and RNA Using an Efficiently Replicated and Transcribed Class of Unnatural Base Pairs. <i>Journal of the American Chemical Society</i> , 2011, 133, 19878-19888.	13.7	94
5	Self-Duplex Formation of an APy-Substituted Oligodeoxyadenylate and Its Unique Fluorescence. <i>Journal of the American Chemical Society</i> , 2007, 129, 5244-5247.	13.7	66
6	Probing the B-to-Z-DNA duplex transition using terminally stacking ethynyl pyrene-modified adenosine and uridine bases. <i>Chemical Communications</i> , 2006, , 150-152.	4.1	48
7	Probing the stable G-quadruplex transition using quencher-free end-stacking ethynyl pyrene-adenosine. <i>Chemical Communications</i> , 2007, , 2817-2819.	4.1	42
8	Reversible sol-gel signaling system with epMB for the study of enzyme- and pH-triggered oligonucleotide release from a biotin hydrogel. <i>Chemical Communications</i> , 2007, , 1804-1806.	4.1	34
9	Radionuclide labeling and evaluation of candidate radioligands for PET imaging of histone deacetylase in the brain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6700-6705.	2.2	31
10	Recent developments in novel blue/green/red/NIR small fluorescent probes for in cellulo tracking of RNA/DNA G-quadruplexes. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 40, 81-116.	11.6	31
11	Cholesterol-Linked Fluorescent Molecular Beacons with Enhanced Cell Permeability. <i>Bioconjugate Chemistry</i> , 2006, 17, 1151-1155.	3.6	30
12	Major Groove Derivatization of an Unnatural Base Pair. <i>ChemBioChem</i> , 2009, 10, 2394-2400.	2.6	28
13	Novel fluorescent C2-symmetric sequential on-off-on switch for Cu <sup>2+</sup> and pyrophosphate and its application in monitoring of endogenous alkaline phosphatase activity. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 730-742.	7.8	27
14	Combined recombinase polymerase amplification/rkDNA-graphene oxide probing system for detection of SARS-CoV-2. <i>Analytica Chimica Acta</i> , 2021, 1158, 338390.	5.4	22
15	Probe development for detection of TERRA 1 intramolecular G-quadruplex formation using a fluorescent adenosine derivative. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1589-1591.	2.2	21
16	Synthesis and characterization of a fluorescent adenosine derivative for detection of intermolecular RNA G-quadruplexes. <i>Tetrahedron Letters</i> , 2014, 55, 1461-1463.	1.4	19
17	Highly sensitive MicroRNA 146a detection using a gold nanoparticle-based CTC repeat probing system and isothermal amplification. <i>Analytica Chimica Acta</i> , 2018, 999, 155-160.	5.4	18
18	Label-free sensing platform for miRNA-146a based on chromo-fluorogenic pyrophosphate recognition. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110867.	3.5	17

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19	Diverse size approach to incorporate and extend highly fluorescent unnatural nucleotides into DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3591-3596.	3.0	16
20	Multiplex fluorophore systems on DNA with new diverse fluorescence properties and ability to sense the hybridization dynamics. <i>Chemical Communications</i> , 2014, 50, 7273.	4.1	15
21	Detection of structure-switching in G-quadruplexes using end-stacking ability. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3910-3913.	2.2	14
22	Highly fluorescent morpholine naphthalimide deoxyuridine nucleotide for the detection of miRNA 24-3P through rolling circle amplification. <i>Analyst</i> , The, 2020, 145, 4777-4781.	3.5	14
23	A multiplex fluorophore molecular beacon: detection of the target sequence using large Stokes shift and multiple emission signal properties. <i>Chemical Communications</i> , 2015, 51, 2939-2942.	4.1	13
24	Homoadenine signalling system for SNP typing. <i>Molecular BioSystems</i> , 2009, 5, 235-237.	2.9	12
25	pH-Dependant fluorescence switching of an i-motif structure incorporating an isomeric azobenzene/pyrene fluorophore. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2415-2419.	2.2	12
26	Rapid and highly sensitive hairpin structure-mediated colorimetric detection of miRNA. <i>Analytica Chimica Acta</i> , 2021, 1176, 338765.	5.4	12
27	Highly sensitive fluorescent sensor targeting CuCl <sub>2</sub> based on thiophene attached anthracene compound (TA). <i>Tetrahedron Letters</i> , 2017, 58, 941-944.	1.4	10
28	Highly fluorescence quenching graphene oxide-based oligodeoxynucleotide hairpin systems for probing CNG DNA repeat sequences. <i>Tetrahedron Letters</i> , 2017, 58, 3301-3305.	1.4	10
29	Large-Stokes-shift-based folded DNA probing systems targeting DNA and miRNA 21 with signal amplification. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4881-4885.	3.0	10
30	Transcription of Unnatural Fluorescent Nucleotides and their Application with Graphene Oxide for the Simple and Direct Detection of miRNA. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 1054-1057.	1.9	10
31	Dual-site ligation-assisted loop-mediated isothermal amplification (dLig-LAMP) for colorimetric and point-of-care determination of real SARS-CoV-2. <i>Mikrochimica Acta</i> , 2022, 189, 176.	5.0	10
32	Azo compounds with different sized fluorophores and characterization of their photophysical properties based on trans to cis conformational change. <i>Tetrahedron Letters</i> , 2014, 55, 5247-5250.	1.4	9
33	A novel gold-based molecular beacon for probing CNG DNA repeat sequences. <i>Tetrahedron Letters</i> , 2015, 56, 542-545.	1.4	9
34	T7 exo-mediated FRET-breaking combined with DSN/RNaseH/TdT for the detection of microRNA with ultrahigh signal-amplification. <i>Analyst</i> , The, 2019, 144, 3216-3220.	3.5	9
35	rkDNA/graphene oxide as a simple probe for the rapid detection of miRNA21. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127398.	2.2	8
36	Direct and selective metal-free N <sup>6</sup> -arylation of adenosine residues for simple fluorescence labeling of DNA and RNA. <i>Chemical Communications</i> , 2021, 57, 5450-5453.	4.1	8

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37	Azo-pyrene-based fluorescent sensor of reductive cleavage of isomeric azo functional group. <i>Tetrahedron Letters</i> , 2017, 58, 679-681.	1.4	7
38	Direct incorporation and extension of a fluorescent nucleotide through rolling circle DNA amplification for the detection of microRNA 24-3P. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2035-2038.	2.2	7
39	Site-specific incorporation of multiple units of functional nucleotides into DNA using a step-wise approach with polymerase and its application to monitoring DNA structural changes. <i>Chemical Communications</i> , 2019, 55, 2158-2161.	4.1	7
40	Propargylamine-selective dual fluorescence turn-on method for post-synthetic labeling of DNA. <i>Chemical Communications</i> , 2020, 56, 3199-3202.	4.1	7
41	Polymerase-mediated synthesis of <i>p</i> -vinylaniline-coupled fluorescent DNA for the sensing of nucleolin protein-c-myc G-quadruplex interactions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5788-5793.	2.8	7
42	Loop-mediated fluorescent probes for selective discrimination of parallel and antiparallel G-Quadruplexes. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 35, 116077.	3.0	7
43	A fluorescent molecular rotor for the selective detection of the hybrid-conformation 22AG G-Quadruplex. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 55, 128462.	2.2	7
44	Highly sensitive, selective, and rapid detection of miRNA-21 using an RCA/G-quadruplex/QnDESA probing system. <i>Analytical Methods</i> , 2022, 14, 97-100.	2.7	5
45	Pyrene-labeled deoxyuridine and deoxyadenosine: fluorescent discriminating phenomena in their duplex and hairpin oligonucleotides. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 135-136.	0.3	4
46	Using gold aggregation to probe the inhibition and destruction of the G-quadruplex structure by TT-dimerization. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2434-2437.	2.2	4
47	Daphnetin: A novel blue-green photonic switch for disodium phosphates that allows monitoring of polymerase chain reactions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 620-628.	3.9	4
48	Copper complex of a thienyl-hydrazone rhodamine derivative is a highly selective colorimetric sensor for pyrophosphate. <i>Tetrahedron Letters</i> , 2022, 89, 153606.	1.4	4
49	Single excitation three color folded DNA probe for SNP typing. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5286-5290.	2.2	3
50	AuNP-CTG based probing system targeting CAG repeat DNA and RNA sequences. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3772-3775.	2.2	3
51	Unprecedented green-emissive boranyl-hydrazone supramolecular assemblies and their in vitro diagnostic applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 197, 111553.	3.8	3
52	Unnatural nucleotide-based rkdNA probe combined with graphene oxide for detection of alkaline phosphatase activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128694.	2.2	2
53	Ethynylpyrene induces pH-dependent, fluorescence-detectable, reversible DNA condensation and decondensation. <i>RSC Advances</i> , 2013, 3, 9150.	3.6	1
54	Stepwise and site-selective enzymatic introduction of multiple functional groups to turn-on multiple fluorescence in long DNA strands. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131043.	7.8	1

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55	RNA Polymerase-Mediated Stepwise RNA-Primed RNA Polymerization for Site-Specific Multiple Labeling into RNA: A Fluorescence Resonance Energy Transfer Probe Detects the Structural Change of an RNA G-Quadruplex. <i>ACS Synthetic Biology</i> , 2021, 10, 3139-3147.	3.8	1
56	Cu <sup>2+</sup> -diethylaminosalicylaldehyde self-dimer for regulation of DNA amplification with changes in fluorescence. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132270.	7.8	1
57	Dimerization and Its Effect on Human Telomere G-Quadruplex Formation. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1729-1732.	1.9	0
58	Directly arylated oligonucleotides as fluorescent molecular rotors for probing DNA single-nucleotide polymorphisms. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 56, 116617.	3.0	0