

Gil Tae Hwang

List of Publications by Year in descending order

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49
papers

1,583
citations

304368

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53
all docs

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docs citations

53
times ranked

1258
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Discriminating Quencher-Free Molecular Beacon for Probing DNA. <i>Journal of the American Chemical Society</i> , 2004, 126, 6528-6529.	6.6	174
2	Discovery, Characterization, and Optimization of an Unnatural Base Pair for Expansion of the Genetic Alphabet. <i>Journal of the American Chemical Society</i> , 2008, 130, 2336-2343.	6.6	155
3	Optimization of an Unnatural Base Pair toward Natural-Like Replication. <i>Journal of the American Chemical Society</i> , 2009, 131, 3246-3252.	6.6	117
4	Synthesis and Photophysical Studies of Bis-enediynes as Tunable Fluorophores. <i>Journal of the American Chemical Society</i> , 2003, 125, 11241-11248.	6.6	107
5	DNA-Encoded Library Screening as Core Platform Technology in Drug Discovery: Its Synthetic Method Development and Applications in DEL Synthesis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6578-6599.	2.9	106
6	Solution Structure, Mechanism of Replication, and Optimization of an Unnatural Base Pair. <i>Chemistry - A European Journal</i> , 2010, 16, 12650-12659.	1.7	75
7	Fluorescent oligonucleotide incorporating 5-(1-ethynylpyrenyl)-2-deoxyuridine: sequence-specific fluorescence changes upon duplex formation. <i>Tetrahedron Letters</i> , 2004, 45, 3543-3546.	0.7	66
8	Efforts towards Expansion of the Genetic Alphabet: Pyridone and Methyl Pyridone Nucleobases. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4326-4329.	7.2	60
9	Substituent effects on the pairing and polymerase recognition of simple unnatural base pairs. <i>Nucleic Acids Research</i> , 2006, 34, 2037-2045.	6.5	60
10	Triad base pairs containing fluorene unit for quencher-free SNP typing. <i>Tetrahedron</i> , 2007, 63, 3538-3547.	1.0	50
11	Pyrene-labeled deoxyuridine and deoxyadenosine: fluorescent discriminating phenomena in their oligonucleotides. <i>Tetrahedron Letters</i> , 2005, 46, 1475-1477.	0.7	45
12	Record-high adsorption capacities of polyaniline-derived porous carbons for the removal of personal care products from water. <i>Chemical Engineering Journal</i> , 2018, 352, 71-78.	6.6	41
13	Quencher-free molecular beacon systems with two pyrene units in the stem region. <i>Tetrahedron Letters</i> , 2006, 47, 4037-4039.	0.7	40
14	Novel Fluorophores: Efficient Synthesis and Photophysical Study. <i>Organic Letters</i> , 2001, 3, 2469-2471.	2.4	38
15	Unnatural Substrate Repertoire of A, B, and X Family DNA Polymerases. <i>Journal of the American Chemical Society</i> , 2008, 130, 14872-14882.	6.6	35
16	Cholesterol-Linked Fluorescent Molecular Beacons with Enhanced Cell Permeability. <i>Bioconjugate Chemistry</i> , 2006, 17, 1151-1155.	1.8	30
17	Synthesis and binding studies of multiple calix[4]arenes. <i>Tetrahedron</i> , 2002, 58, 9019-9028.	1.0	29
18	Optimization of the Pyridyl Nucleobase Scaffold for Polymerase Recognition and Unnatural Base Pair Replication. <i>ChemBioChem</i> , 2008, 9, 2796-2799.	1.3	27

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19	Ī-Conjugated Dendrimers Based on Bis(enediynyl)benzene Units. <i>Organic Letters</i> , 2004, 6, 2669-2672.	2.4	26
20	Efforts toward Developing Probes of Protein Dynamics: Vibrational Dephasing and Relaxation of Carbon-13 Deuterium Stretching Modes in Deuterated Leucine. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7991-7994.	1.2	26
21	Bis-calix[4]arenes with imine linkages: synthesis and binding study of thiopheno bis-calix[4]arene with viologens. <i>Tetrahedron Letters</i> , 2000, 41, 5917-5921.	0.7	24
22	The effects of unnatural base pairs and mismatches on DNA duplex stability and solvation. <i>Nucleic Acids Research</i> , 2009, 37, 4757-4763.	6.5	23
23	Single-Labeled Oligonucleotides Showing Fluorescence Changes upon Hybridization with Target Nucleic Acids. <i>Molecules</i> , 2018, 23, 124.	1.7	21
24	Quencher-free linear beacon systems containing 2-ethynylfluorenone-labeled 2-deoxyuridine units. <i>Tetrahedron</i> , 2012, 68, 72-78.	1.0	18
25	Novel silicon-bridged macrocycles: efficient synthesis by quadruple cycloadditive macrocyclization and intramolecular nitrile oxide dimerization. <i>Tetrahedron Letters</i> , 2000, 41, 4177-4180.	0.7	17
26	Multiple Cycloadditive Macrocyclization: An Efficient Method for Crown Ether-Type Cyclophanes, Bis-Calix[4]arenes and Silamacrocycles. <i>Synthesis</i> , 2001, 2001, 2191-2202.	1.2	16
27	Synthesis and Photophysical Study of 2-Deoxyuridines Labeled with Fluorene Derivatives. <i>Molecules</i> , 2012, 17, 12061-12071.	1.7	16
28	Highly Efficient Quencher-Free Molecular Beacon Systems Containing 2-Ethynyl-2,6-dimethyl-4-(2-ethynylphenyl)-5-methylimidazole and 2-Ethynyl-2,6-dimethyl-4-(2-ethynylphenyl)-5-methylimidazole Labeled 2-Deoxyuridine Units. <i>ChemBioChem</i> , 2013, 14, 1353-1362.	1.3	15
29	Cyclophane-type bis-calix[4]arenes: efficient synthesis via quadruple cycloadditive macrocyclization and conformational study. <i>Tetrahedron Letters</i> , 2000, 41, 10055-10060.	0.7	14
30	Synthesis and photophysical properties of 2-deoxyguanosine derivatives labeled with fluorene and fluorenone units: toward excimer probes. <i>RSC Advances</i> , 2014, 4, 12012.	1.7	12
31	Polymerase Recognition and Stability of Fluoro-Substituted Pyridone Nucleobase Analogues. <i>ChemBioChem</i> , 2007, 8, 1606-1611.	1.3	11
32	pH-Responsive quencher-free molecular beacon systems containing 2-deoxyuridine units labeled with fluorene derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7165-7172.	1.5	11
33	Catalytic enantioselective synthesis of carboxy-substituted 2-isoxazolines by cascade oxa-Michael-cyclization. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 657-664.	1.5	11
34	Temperature effect on photoluminescent properties of red light-emitting materials based on Ru(II)-chelated complexes. <i>Thin Solid Films</i> , 2002, 417, 111-115.	0.8	7
35	pH-sensitive fluorescent deoxyuridines labeled with 2-aminofluorene derivatives. <i>Tetrahedron</i> , 2016, 72, 5595-5601.	1.0	7
36	Synthesis and Biological Evaluation of BODIPY-PF-543. <i>Molecules</i> , 2019, 24, 4408.	1.7	7

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37	4-(dimethylamino)fluorescein Exhibits pH-Dependent Emission Behavior Distinct From That of Fluorescein. Asian Journal of Organic Chemistry, 2018, 7, 150-154.	1.3	6
38	Ultramacrocyclic with Four Calix[4]arenes: Synthesis and X-Ray Crystal Structure of A Quadruple Calix[4]arene. Synthetic Communications, 2000, 30, 4205-4212.	1.1	5
39	Photoinduced radical polymerization by methyl fluoresceins under visible light and the application to signal amplification of hydrogen peroxide. Dyes and Pigments, 2022, 200, 110163.	2.0	5
40	Direct synthesis and luminescent properties of new silicon-based alternating copolymers. Synthetic Metals, 2001, 121, 1743-1744.	2.1	4
41	Synthesis of dansyl labeled sphingosine kinase 1 inhibitor. Chemistry and Physics of Lipids, 2018, 215, 29-33.	1.5	4
42	Photophysical Study of 2-Fluorenyl-1,2,3-Triazole-Labeled 2-Deoxyuridine and Its Oligonucleotide. Bulletin of the Korean Chemical Society, 2018, 39, 78-83.	1.0	2
43	5-Bromo-4-(dimethylamino)fluorescein: Synthesis and Photophysical Studies. Molecules, 2018, 23, 219.	1.7	2
44	Fluorescent Oligonucleotides Containing a 2-Ethynylfluorene- or 2-Ethynylfluorenone-Labeled 2-Deoxyguanosine Unit: Fluorescence Changes upon Duplex Formation. Bulletin of the Korean Chemical Society, 2016, 37, 1290-1297.	1.0	1
45	The linkers in fluorene-labeled 2-deoxyuridines affect fluorescence discriminating phenomena upon duplex formation. RSC Advances, 2020, 10, 18853-18859.	1.7	1
46	Expanding the effectiveness of screening. Nature Chemistry, 2021, 13, 515-517.	6.6	1
47	Synthesis and Photophysical Studies of Bis-enediynes as Tunable Fluorophores.. ChemInform, 2004, 35, no.	0.1	0
48	Fluorene-Labeled 2-Deoxyuridine as an Environmentally Sensitive Probe for Detection of an Abasic Site. ChemistrySelect, 2020, 5, 14480-14483.	0.7	0
49	2-Dimethylaminofluorene-Labeled 2-Deoxyuridine as a Turn-On Fluorescent Probe for i-Motif DNA. ChemistrySelect, 2021, 6, 8361-8364.	0.7	0