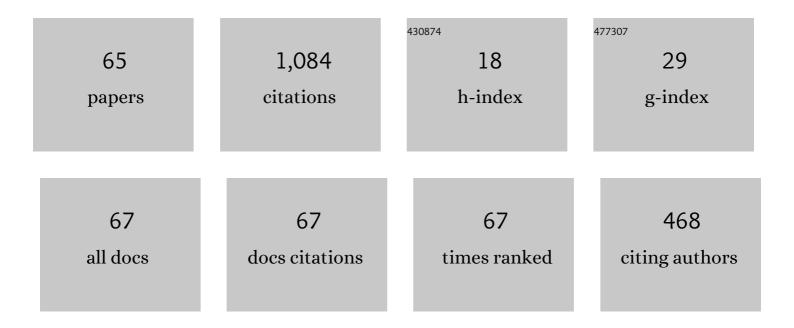
Masakatsu Matsumoto

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------------------|---------------------|
| 1 | Advanced chemistry of dioxetane-based chemiluminescent substrates originating from bioluminescence. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2004, 5, 27-53. | 11.6 | 178 |
| 2 | Viscosity Dependence of the Chemically Induced Electron-Exchange Chemiluminescence Triggered from a Bicyclic Dioxetane. Journal of the American Chemical Society, 2000, 122, 8631-8634. | 13.7 | 52 |
| 3 | Synthesis of 5-alkyl-1-aryl-4,4-dimethyl-2,6,7-trioxabicyclo[3.2.0]heptanes as a chemiluminescent substrate with remarkable thermal stability. Tetrahedron Letters, 1997, 38, 2863-2866. | 1.4 | 48 |
| 4 | Reversible 1,4-cycloaddition of singlet oxygen to N-substituted 2-pyridones: 1,4-endoperoxide as a versatile chemical source of singlet oxygen. Chemical Communications, 2005, , 483. | 4.1 | 47 |
| 5 | Structural Aspects of 1,2-Dioxetanes Active toward Intramolecular Charge-Transfer-Induced Chemiluminescent Decomposition. Bulletin of the Chemical Society of Japan, 2005, 78, 1899-1920. | 3.2 | 45 |
| 6 | Intramolecular Charge-Transfer-Induced Decomposition Promoted by an Aprotic Polar Solvent for Bicyclic Dioxetanes Bearing a 4-(Benzothiazol-2-yl)-3-hydroxyphenyl Moiety. Journal of Organic Chemistry, 2011, 76, 902-908. | 3.2 | 32 |
| 7 | Base-induced chemiluminescence of 5- tert -butyl-1-(4-hydroxybenz[d) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T profile in aqueous medium. Tetrahedron Letters, 2001, 42, 8869-8872. | rf 50 507 1.4 | Td (]oxazol-6 31 |
| 8 | Synthesis and chemiluminescence of 3,3-diisopropyl-4-methoxy-4-(2-naphthyl)-1,2-dioxetanes. Tetrahedron Letters, 1997, 38, 411-414. | 1.4 | 29 |
| 9 | Hydrogen-Bonding Effects on the Fluorescence versus Electron-Transfer-Initiated Chemiluminescence Spectra of them-Oxybenzoate Ion Derived from a Bicyclic Dioxetane. Journal of Organic Chemistry, 2000, 65, 2078-2082. | 3.2 | 29 |
| 10 | Thermodynamic Aspects of Thermal Decomposition and Charge-Transfer-Induced Chemiluminescent Decomposition for Bicyclic Dioxetanes Bearing a 4-(Benzothiazol-2-yl)-3-hydroxyphenyl Moiety. Journal of Organic Chemistry, 2010, 75, 3678-3684. | 3.2 | 27 |
| 11 | Synthesis of 3-alkoxy-3-aryl-4,4-diisopropyl-1,2-dioxetanes and their base-induced chemiluminescence. Tetrahedron, 1999, 55, 4287-4298. | 1.9 | 24 |
| 12 | Synthesis of 3,3-diisopropyl-4-methoxy-4-(siloxy-2-naphthyl)-1,2-dioxetanes and their Fâ^'-induced chemiluminescent decomposition. Tetrahedron, 1999, 55, 6831-6840. | 1.9 | 23 |
| 13 | Synthesis of bicyclic dioxetanes bearing a 3-hydroxy-4-isoxazolylphenyl moiety: new CIEEL-active dioxetanes emitting light with remarkable high-efficiency in aqueous medium. Tetrahedron Letters, 2002, 43, 8955-8958. | 1.4 | 22 |
| 14 | Synthesis and fluoride-induced chemiluminescent decomposition of bicyclic dioxetanes substituted with a 2-hydroxynaphthyl group. Tetrahedron, 2006, 62, 5808-5820. | 1.9 | 22 |
| 15 | Synthesis of Sulfanyl-, Sulfinyl-, and Sulfonyl-Substituted Bicyclic Dioxetanes and Their Base-Induced Chemiluminescence. Journal of Organic Chemistry, 2010, 75, 879-884. | 3.2 | 21 |
| 16 | Bicyclic dioxetanes bearing a 4-(benzoazol-2-yl)-3-hydroxyphenyl moiety: chemiluminescence profile for base-induced decomposition in aprotic medium and in aqueous medium. Tetrahedron Letters, 2005, 46, 6075-6078. | 1.4 | 20 |
| 17 | Synthesis of 3-ethoxy-4,4-diisopropyl-1,2-dioxetanes bearing a benzo(b)furan-2-yl or a benzo(b)thiophen-2-yl group: CIEEL-active dioxetanes emitting red light. Luminescence, 1999, 14, 345-348. | 2.9 | 19 |
| 18 | Synthesis of 5-tert-butyl-1-(3-tert-butyldimethylsiloxy)phenyl-4,4-dimethyl-2,6,7-trioxabicyclo[3.2.0]heptanes and their fluoride-induced chemiluminescent decomposition: effect of a phenolic electron donor on the CIEEL decay rate in aprotic polar solvent. Luminescence, 2002, 17, 305-312. | 2.9 | 19 |

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|----|---|-----|-----------|
| 19 | Synthesis of bicyclic dioxetanes tethering a fluororescer through an ω-carbamoyl-substituted linker and their high-performance chemiluminescence in an aqueous system. Tetrahedron, 2012, 68, 6079-6087. | 1.9 | 18 |
| 20 | Thermal stability and chemiluminescence of 3-alkoxy-3-aryl-4,4-diisopropyl-1,2-dioxetanes. Journal of the Chemical Society Chemical Communications, 1995, , 431. | 2.0 | 17 |
| 21 | Synthesis and Chemiluminescence of 3-Biphenylyl-4,4-diisopropyl-3-methoxy-1,2-Dioxetanes. Heterocycles, 1995, 41, 2419. | 0.7 | 17 |
| 22 | Rotamer-dependent chemiluminescence in the intramolecular charge-transfer-induced decomposition of bicyclic dioxetanes bearing a hydroxyaryl group. Tetrahedron Letters, 2008, 49, 5372-5375. | 1.4 | 16 |
| 23 | Synthesis of Thermally Stable Acylamino-Substituted Bicyclic Dioxetanes and Their Base-Induced Chemiluminescent Decomposition. Journal of Organic Chemistry, 2010, 75, 5920-5926. | 3.2 | 16 |
| 24 | Fluoride-induced chemiluminescent decomposition of dioxetanes bearing a siloxyaryl moiety to produce an alkyl aryl ketone as an emitter. Tetrahedron, 2003, 59, 4811-4819. | 1.9 | 15 |
| 25 | Color modulation for intramolecular chargeâ€transferâ€induced chemiluminescence of 1,2â€dioxetanes. Chemical Record, 2008, 8, 213-228. | 5.8 | 15 |
| 26 | Crucial Dependence of Chemiluminescence Efficiency on theSyn/AntiConformation for Intramolecular Charge-Transfer-Induced Decomposition of Bicyclic Dioxetanes Bearing an Oxidoaryl Group. Journal of Organic Chemistry, 2011, 76, 5006-5017. | 3.2 | 15 |
| 27 | Thermal decomposition of 1-(aminophenyl)-5-tert-butyl-4,4-dimethyl- 2,6,7-trioxabicyclo[3.2.0]heptanes: unusual O–O bond cleavage competing with normal fragmentation of 1,2-dioxetanes. Chemical Communications, 1998, , 2319-2320. | 4.1 | 14 |
| 28 | Chemiluminescence in molecular recognition: base-induced decomposition of optically active dioxetanes bearing a bisnaphthol moiety with a complex of optically active crown ether–potassium tert-butoxide. Chemical Communications, 2005, , 808-810. | 4.1 | 13 |
| 29 | Base-induced cyclization of 1-benzyloxy-2,2,4,4-tetramethylpentan-3-ones: intramolecular nucleophilic addition of an anion of a benzyl ether to the carbonyl moiety without the Wittig rearrangement or protophilic decomposition. Chemical Communications, 1997, , 2395-2396. | 4.1 | 12 |
| 30 | Singlet oxygenation of 4-(4-tert-butyl-3,3-dimethyl-2,3-dihydrofuran-5-yl)-2-pyridone: non-stereospecific 1,4-addition of singlet oxygen to a 1,3-diene system and thermal rearrangement of the resulting 1,4-endoperoxides to stable 1,2-dioxetanes. Chemical Communications, 2000, , 821-822. | 4.1 | 12 |
| 31 | Design and synthesis of chemiluminescent substrates with high luminescent efficiency in an aqueous system: 5-tert-butyl-4,4-dimethyl-2,6,7-trioxabicyclo[3.2.0]heptanes bearing a 3-hydroxy-4-(1-iminoethyl)phenyl moiety at the 1-position. Luminescence, 2001, 16, 275-280. | 2.9 | 12 |
| 32 | Color modulation for chemiluminescence of a dioxetane bearing a 3-(anthracen-9-yl)-5-hydroxyphenyl moiety induced by a complex of crown ether with potassium tert-butoxide. Tetrahedron Letters, 2004, 45, 8079-8082. | 1.4 | 12 |
| 33 | An intramolecular charge/electron transfer chemiluminescence mechanism of oxidophenyl-substituted 1,2-dioxetane. Physical Chemistry Chemical Physics, 2011, 13, 16005. | 2.8 | 12 |
| 34 | Hydrogen bonding network-assisted chemiluminescent thermal decomposition of 3-hydroxyphenyl-substituted dioxetanes in crystal. Tetrahedron Letters, 2016, 57, 2558-2562. | 1.4 | 12 |
| 35 | Fluoride-induced chemiluminescent decomposition of 1,2-dioxetanes bearing a phenyl moiety substituted with a methyl having an electron-withdrawing groupElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b210857g/. Chemical Communications, 2003, , 482-483. | 4.1 | 10 |
| 36 | Intramolecular charge-transfer-induced chemiluminescent decomposition of 1,2-dioxetanes bearing a phenylmethanide anion. Tetrahedron, 2005, 61, 9569-9585. | 1.9 | 10 |

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|----|---|-----|-----------|
| 37 | Solvent-promoted chemiluminescent decomposition of a bicyclic dioxetane bearing a 4-(benzothiazol-2-yl)-3-hydroxyphenyl moiety. Tetrahedron Letters, 2008, 49, 4170-4173. | 1.4 | 10 |
| 38 | Base-Induced Chemiluminescent Decomposition of Bicyclic Dioxetanes Bearing a (Benzothiazol-2-yl)-3-hydroxyphenyl Group: A Radiationless Pathway Leading to Marked Decline of Chemiluminescence Efficiency. Journal of Organic Chemistry, 2012, 77, 4725-4731. | 3.2 | 10 |
| 39 | New Triggering System for Dioxetane-based Chemiluminescence: Base-induced Decomposition of Bicyclic Dioxetanes Bearing a 3-Aminophenyl or 2-Phenylindol-6-yl Moiety. Chemistry Letters, 2005, 34, 718-719. | 1.3 | 9 |
| 40 | Synthesis of bicyclic dioxetanes bearing a 2-hydroxy-1,1′-binaphthyl-5-yl moiety active toward intramolecular charge-transfer-induced chemiluminescent decomposition. Tetrahedron, 2006, 62, 12424-12437. | 1.9 | 9 |
| 41 | Chemiluminescent decomposition of a dioxetane bearing a 3-(1-cyanoethenyl)phenyl moiety induced by Michael addition of an anion of malonate. Tetrahedron Letters, 2004, 45, 3779-3782. | 1.4 | 8 |
| 42 | Bicyclic dioxetanes bearing an inden-2-yl or a benzo(b)thiazol-2-yl moiety as a CIEEL-active chemiluminescent substrate emitting red light. Luminescence, 2005, 20, 63-72. | 2.9 | 8 |
| 43 | Color modulation for intramolecular charge-transfer-induced chemiluminescence of bicyclic dioxetanes bearing a 3-hydroxy-5-naphthylphenyl moiety in the coordination sphere. Tetrahedron Letters, 2006, 47, 8407-8411. | 1.4 | 8 |
| 44 | Marked difference in singlet-chemiexcitation efficiency between syn-anti isomers of spiro[1,2-dioxetane-3,1â€2-dihydroisobenzofuran] for intramolecular charge-transfer-induced decomposition. Tetrahedron Letters, 2008, 49, 6145-6147. | 1.4 | 7 |
| 45 | Novel Intramolecular Cyclization of 2â€(Butaâ€1,3â€dienyl)benzyl Anions to 6,7(9)â€Dihydroâ€5 <i>H</i> â€benzocycloheptenyl Anions Leading to Successive Formation of 1,2â€Dihydrocyclopropa[<i>a</i>]naphthalenes. Helvetica Chimica Acta, 2013, 96, 1704-1713. | 1.6 | 7 |
| 46 | Chemiexcitation efficiency for the charge-transfer-induced chemiluminescent decomposition of 3-hydroxyphenyl-substituted dioxetanes in an aqueous system. Tetrahedron Letters, 2014, 55, 1644-1647. | 1.4 | 7 |
| 47 | Highly effective and rapid emission of light from bicyclic dioxetanes bearing a 3-hydroxyphenyl substituted with a 4-p-oligophenylene moiety in an aqueous system: Two different ways for the enhancement of chemiluminescence efficiency. Tetrahedron, 2020, 76, 131203. | 1.9 | 7 |
| 48 | Palladium-Catalyzed Dehydrative Aromatization of Cyclohexenone Oximes to Anilines. Synthetic Communications, 1994, 24, 1441-1446. | 2.1 | 6 |
| 49 | Kinetics of Base Catalyzed Chemiluminescence Reaction of Spiro[adamantane -1,3′-(4′-(m-hydroxyphenyl)-4′-methoxy-1′,2′-dioxetane)]. Chemistry Letters, 2002, 31, 762-763. | 1.3 | 6 |
| 50 | Novel intramolecular cyclization of 2-(buta-1,3-dienyl)-3-methylpyrazines and 3-(buta-1,3-dienyl)-4-methyl-1,2,5-oxadiazoles into 5H-cycloheptapyrazines and 4H-cyclohepta-1,2,5-oxadiazoles. Tetrahedron Letters, 2004, 45, 3895-3898. | 1.4 | 6 |
| 51 | Organic superbase-induced chemiluminescent decomposition of a hydroxyaryl-substituted dioxetane: Unique effect of a bifunctional guanidine base on the chemiluminescence profile of a bicyclic dioxetane bearing a 4-(benzoxazol-2-yl)-3,5-dihydroxyphenyl moiety. Tetrahedron Letters, 2018, 59, 971-977. | 1.4 | 6 |
| 52 | Synthesis and chemiluminescent decomposition of spiro[1,2-dioxetane-3,6′-benzo(c)chromene]s. Luminescence, 1999, 14, 341-344. | 2.9 | 5 |
| 53 | Chemiluminescence of bicyclic dioxetanes bearing a hydroxyphenyl moiety substituted with carbazolyl, indolyl or benzotriazolyl group in the coordination sphere. Luminescence, 2007, 22, 420-429. | 2.9 | 5 |
| 54 | Alkaline metal ion-enhanced chemiluminescence of bicyclic dioxetanes bearing a hydroxyaryl group with an â€~even' substitution pattern. Tetrahedron Letters, 2009, 50, 2337-2341. | 1.4 | 5 |

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|----|--|---------------------|-----------|
| 55 | Solvent effect on base-induced chemiluminescent decomposition of bicyclic dioxetanes bearing a 3-hydroxyphenyl group. Tetrahedron, 2021, 88, 132147. | 1.9 | 5 |
| 56 | Synthesis of Bicyclic Dioxetanes Bearing a 4-(Benzimidazol-2-yl)-3-hydroxyphenyl Group and Their Base-Induced Chemiluminescent Decomposition in an Aprotic Medium and in an Aqueous Medium. Heterocycles, 2013, 87, 65. | 0.7 | 4 |
| 57 | Effect of Intramolecular Hydrogen Bonding on Thermolysis of Dioxetane: Unusual Instability of Bicyclic Dioxetanes Bearing a Hydroxynaphthyl Group with Vicinal Substitution Pattern. Chemistry Letters, 2007, 36, 516-517. | 1.3 | 2 |
| 58 | Chemiluminescence in anisotropic microenvironment: splitting of chemiluminescence efficiency for charge-transfer-induced decomposition of optically active bicyclic dioxetanes bearing a 2-hydroxy-1,1′-binaphthyl-4-yl moiety under chiral recognition. Tetrahedron Letters, 2007, 48, 491-496. | 1.4 | 2 |
| 59 | Magnesium methoxideâ€induced chemiluminescent decomposition of bicyclic dioxetanes bearing a 2′â€elkoxyâ€2â€hydroxyâ€1,1′â€binaphthylâ€7â€yl moiety. Luminescence, 2013, 28, 696-704. | 2.9 | 2 |
| 60 | Colour change of chemiluminescence for baseâ€induced decomposition of dioxetane bearing a 4â€(4â€cyanophenyl)iminomethylâ€3â€hydroxyphenyl group. Luminescence, 2008, 23, 344-349. | 2.9 | 1 |
| 61 | N-Acyl group-directed color modulation in the t-BuOK-mediated chemiluminescent decomposition of hydroxyaryl-substituted dioxetanes fused with a pyrrolidine ring. Tetrahedron Letters, 2012, 53, 5309-5313. | 1.4 | 1 |
| 62 | Design and synthesis of chemiluminescent substrates with high luminescent efficiency in an aqueous system: 5â€tertâ€butylâ€4,4â€dimethylâ€2,6,7â€trioxabicyclo[3.2.0]heptanes bearing a 3â€hydroxyâ€4â€(1â€i moiety at the 1â€position. Luminescence, 2001, 16, 275-280. | m ìn @ethyl) | phenyl |
| 63 | Fluoride-induced chemiluminescent decomposition of 1,2-dioxetanes bearing a phenyl moiety substituted with a methyl having an electron-withdrawing group. Chemical Communications, 2003, , 482-3. | 4.1 | 1 |
| 64 | Reversible 1,4-Cycloaddition of Singlet Oxygen to N-Substituted 2-Pyridones: 1,4-Endoperoxide as a Versatile Chemical Source of Singlet Oxygen ChemInform, 2005, 36, no. | 0.0 | 0 |
| 65 | Marked difference in fragmentation between collision-induced excitation and chemi-excitation of keto esters produced from dioxetanes bearing a 4-(benzothiazol-2-yl)-3-hydroxyphenyl moiety in negative-mode matrix-assisted laser desorption/ionization time-o. Rapid Communications in Mass Spectrometry, 2010, 24, 2715-2722. | 1.5 | 0 |