# Marcia Levitus

List of Publications by Year
in descending order

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| 63 | 3,979 | 186265 | 144013 |
|---|---|---|---|
| papers | citations | 28 h-index | 57 g-index |

| 67 | 67 | 67 | 4891 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rapid spontaneous accessibility of nucleosomal DNA. Nature Structural and Molecular Biology, 2005, 12, 46-53. | 8.2 | 580 |
| 2 | Cyanine dyes in biophysical research: the photophysics of polymethine fluorescent dyes in biomolecular environments. Quarterly Reviews of Biophysics, 2011, 44, 123-151. | 5.7 | 352 |
| 3 | Precision and accuracy of single-molecule FRET measurementsâ€"a multi-laboratory benchmark study. Nature Methods, 2018, 15, 669-676. | 19.0 | 350 |
| 4 | Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 1. Rotationally Interrupted Conjugation in the Excited States of 1,4-Bis(phenylethynyl)benzene. Journal of the American Chemical Society, 2001, 123, 4259-4265. | 13.7 | 335 |
| 5 | Fluorescence Properties and Photophysics of the Sulfoindocyanine Cy3 Linked Covalently to DNA. Journal of Physical Chemistry B, 2007, 111, 11064-11074. | 2.6 | 257 |
| 6 | Photophysical processes in single molecule organic fluorescent probes. Chemical Society Reviews, 2014, 43, 1057-1075. | 38.1 | 253 |
| 7 | Unusual Luminescence of Hexapyrrolidine Derivatives of C60withThand NovelD3-Symmetry. Journal of the American Chemical Society, 1999, 121, 3246-3247. | 13.7 | 126 |
| 8 | Dynamics of Nucleosome Invasion by DNA Binding Proteins. Journal of Molecular Biology, 2011, 411, 430-448. | 4.2 | 125 |
| 9 | Cyanine Conformational Restraint in the Far-Red Range. Journal of the American Chemical Society, 2017, 139, 12406-12409. | 13.7 | 125 |
| 10 | Measuring Conformational Dynamics:Â A New FCS-FRET Approach. Journal of Physical Chemistry B, 2007, 111, 7392-7400. | 2.6 | 124 |
| 11 | Polarized Electronic Spectroscopy and Photophysical Properties of 9,10-Bis(phenylethynyl)anthracene. Journal of Physical Chemistry A, 2000, 104, 8632-8637. | 2.5 | 101 |
| 12 | Demystifying PIFE: The Photophysics Behind the Protein-Induced Fluorescence Enhancement Phenomenon in Cy3. Journal of Physical Chemistry Letters, 2015, 6, 1819-1823. | 4.6 | 99 |
| 13 | Cy3-DNA Stacking Interactions Strongly Depend on the Identity of the Terminal Basepair. Biophysical Journal, 2011, 100, 1049-1057. | 0.5 | 68 |
| 14 | One Step Pd(0)-Catalyzed Synthesis, X-ray Analysis, and Photophysical Properties of Cyclopent[hi]aceanthrylene:Â Fullerene-like Properties in a Nonalternant Cyclopentafused Aromatic Hydrocarbon. Journal of the American Chemical Society, 2002, 124, 136-143. | 13.7 | 66 |
| 15 | Impact of Cyanine Conformational Restraint in the Near-Infrared Range. Journal of Organic Chemistry, 2020, 85, 5907-5915. | 3.2 | 60 |
| 16 | Photophysics of Backbone Fluorescent DNA Modifications: Reducing Uncertainties in FRET. Journal of Physical Chemistry B, 2009, 113, 7861-7866. | 2.6 | 56 |
| 17 | Nucleobase-Specific Enhancement of Cy3 Fluorescence. Journal of Fluorescence, 2009, 19, 443-448. | 2.5 | 55 |
| 18 | An alternative framework for fluorescence correlation spectroscopy. Nature Communications, 2019, 10, 3662. | 12.8 | 53 |

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|---|---|---|---|
| 19 | DNA sequence-dependent enhancement of Cy3 fluorescence. Photochemical and Photobiological Sciences, 2009, 8, 1105-1110. | 2.9 | 52 |
| 20 | Novel Kinetic Model in Amorphous Polymers. Spiropyranâ^'Merocyanine System Revisited. Journal of Physical Chemistry B, 1997, 101, 7680-7686. | 2.6 | 49 |
| 21 | Photophysical Properties of Coplanar and Twisted 1,4-Bis(9-ethynylanthracenyl)benzene. Rotational Equilibration in the Excited States of Diaryalkynes. Journal of Physical Chemistry A, 2002, 106, 1551-1556. | 2.5 | 49 |
| 22 | Rotational Relaxation of Carbocyanines. Comparative Study with the Isomerization Dynamics. The Journal of Physical Chemistry, 1995, 99, 14231-14239. | 2.9 | 46 |
| 23 | Photophysical and Dynamical Properties of Doubly Linked Cy3â€"DNA Constructs. Journal of Physical Chemistry B, 2014, 118, 152-163. | 2.6 | 45 |
| 24 | Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 2. The Photophysics of 1,4-Diethynyl-2-fluorobenzene in Solution and in Crystals. Journal of Organic Chemistry, 2001, 66, 3188-3195. | 3.2 | 41 |
| 25 | Tutorial: measurement of fluorescence spectra and determination of relative fluorescence quantum yields of transparent samples. Methods and Applications in Fluorescence, 2020, 8, 033001. | 2.3 | 40 |
| 26 | Protein Oligomerization Monitored by Fluorescence Fluctuation Spectroscopy: Self-Assembly of Rubisco Activase. Biophysical Journal, 2012, 103, 949-958. | 0.5 | 36 |
| 27 | Direct measurement of the dipole moment of a metastable merocyanine by electromechanical interferometry. Chemical Physics Letters, 1997, 277, 118-124. | 2.6 | 32 |
| 28 | Fluorescence Measurements on the E.coli DNA Polymerase Clamp Loader: Implications for Conformational Changes During ATP and Clamp Binding. Journal of Molecular Biology, 2004, 336, 1047-1059. | 4.2 | 31 |
| 29 | Protein Environment and DNA Orientation Affect Protein-Induced Cy3 Fluorescence Enhancement. Biophysical Journal, 2019, 117, 66-73. | 0.5 | 31 |
| 30 | Photochromism and Thermochromism of Phenanthrospirooxazine in Poly(Alkyl Methacrylates). Journal of Physical Chemistry B, 1999, 103, 1864-1870. | 2.6 | 29 |
| 31 | Probing the Interaction Between Fluorophores and DNA Nucleotides by Fluorescence Correlation Spectroscopy and Fluorescence Quenching<sup>â€</sup>. Photochemistry and Photobiology, 2012, 88, 782-791. | 2.5 | 27 |
| 32 | FRET Fluctuation Spectroscopy of Diffusing Biopolymers: Contributions of Conformational Dynamics and Translational Diffusion. Journal of Physical Chemistry B, 2010, 114, 980-986. | 2.6 | 26 |
| 33 | Intrinsic stability and oligomerization dynamics of DNA processivity clamps. Nucleic Acids Research, 2014, 42, 6476-6486. | 14.5 | 22 |
| 34 | Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 1. Rotationally Interrupted Conjugation in the Excited States of 1,4-Bis(phenylethynyl)benzene [J. Am. Chem. Soc. 2001, 123, 4259â^'4265].. Journal of the American Chemical Society, 2002, 124, 8181-8181. | 13.7 | 21 |
| 35 | ATP and Magnesium Promote Cotton Short-Form Ribulose-1,5-bisphosphate Carboxylase/Oxygenase (Rubisco) Activase Hexamer Formation at Low Micromolar Concentrations. Biochemistry, 2014, 53, 7232-7246. | 2.5 | 21 |
| 36 | Pitching Single-Focus Confocal Data Analysis One Photon at a Time with Bayesian Nonparametrics. Physical Review X, 2020, 10, . | 8.9 | 21 |

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| 37 | Mechanism of opening a sliding clamp. Nucleic Acids Research, 2017, 45, 10178-10189. | 14.5 | 19 |
| 38 | Manganeseâ€Induced Triplet Blinking and Photobleaching of Single Molecule Cyanine Dyes. ChemPhysChem, 2013, 14, 3495-3502. | 2.1 | 18 |
| 39 | Protein Oligomerization Equilibria and Kinetics Investigated by Fluorescence Correlation Spectroscopy: A Mathematical Treatment. Journal of Physical Chemistry B, 2014, 118, 12404-12415. | 2.6 | 15 |
| 40 | Electrostatic Interactions at the Dimer Interface Stabilize the E.Âcoli Î² Sliding Clamp. Biophysical Journal, 2017, 113, 794-804. | 0.5 | 14 |
| 41 | Assemblyâ€“disassembly is coupled to the ATPase cycle of tobacco Rubisco activase. Journal of Biological Chemistry, 2018, 293, 19451-19465. | 3.4 | 13 |
| 42 | Real-time monitoring of RAG-catalyzed DNA cleavage unveils dynamic changes in coding end association with the coding end complex. Nucleic Acids Research, 2012, 40, 6082-6096. | 14.5 | 12 |
| 43 | Fluorescence anisotropy of dyes included in crosslinked polystyrene. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 126, 77-82. | 3.9 | 11 |
| 44 | Applications of Fluorescence Correlation Spectroscopy to the Study of Nucleic Acid Conformational Dynamics. Progress in Molecular Biology and Translational Science, 2008, 82, 33-69. | 1.9 | 11 |
| 45 | Photophysical characterization of interchromophoric interactions between rhodamine dyes conjugated to proteins. Methods and Applications in Fluorescence, 2018, 6, 045004. | 2.3 | 11 |
| 46 | Relaxation Kinetics by Fluorescence Correlation Spectroscopy: Determination of Kinetic Parameters in the Presence of Fluorescent Impurities. Journal of Physical Chemistry Letters, 2010, 1, 1346-1350. | 4.6 | 10 |
| 47 | Structural Implications on the Properties of Self-Assembling Supramolecular Hosts for Fluorescent Guests. Langmuir, 2016, 32, 8676-8687. | 3.5 | 10 |
| 48 | Photobleaching and Blinking of TAMRA Induced by Mn<sup>2+</sup>. ChemPhysChem, 2012, 13, 909-913. | 2.1 | 6 |
| 49 | Photophysical properties of the hemicyanine Dy-630 and its potential as a single-molecule fluorescent probe for biophysical applications. Methods and Applications in Fluorescence, 2020, 8, 015004. | 2.3 | 3 |
| 50 | Potassium Glutamate and Glycine Betaine Induce Self-Assembly of the PCNA and Î²-Sliding Clamps. Biophysical Journal, 2021, 120, 73-85. | 0.5 | 3 |
| 51 | Photophysical properties of hexapyrrolidine C60 adducts with Th and D3 symmetry: protonation of multiple basic sites. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 127, 13-19. | 3.9 | 2 |
| 52 | Chemical Kinetics at the Single-Molecule Level. Journal of Chemical Education, 2011, 88, 162-166. | 2.3 | 2 |
| 53 | Photophysics of single-molecule probes. , 2019, , 15-69. | | 2 |
| 54 | Sequence-dependent photophysical properties of Cy3-labeled DNA. , 2010, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sequence-Dependent Enhancement of Cy3 Fluorescence on DNA. Biophysical Journal, 2010, 98, 582a. | 0.5 | 1 |
| 56 | MAF leads fluorescence into the new decade. Methods and Applications in Fluorescence, 2020, 8, 010401. | 2.3 | 1 |
| 57 | MAF and fluorescence play their part. Methods and Applications in Fluorescence, 2021, 9, 010401. | 2.3 | 1 |
| 58 | MAF moves higher and faster. Methods and Applications in Fluorescence, 2022, 10, 010401. | 2.3 | 1 |
| 59 | Handbook of Fluorescence Spectroscopy and Imaging. From Ensemble to Single Molecules. Herausgegeben von Markus Sauer, Johan Hofkens und JÃ¶rg Enderlein.. Angewandte Chemie, 2011, 123, 9179-9180. | 2.0 | 0 |
| 60 | Investigating the Stoichiometry of RuBisCO Activase by Fluorescence Fluctuation Methods. Biophysical Journal, 2012, 102, 179a. | 0.5 | 0 |
| 61 | Single Molecule Studies of DNA Replication Processivity Clamps. Biophysical Journal, 2014, 106, 229a. | 0.5 | 0 |
| 62 | A designed buried salt bridge modulates heterodimerization of a membrane peptide. Biopolymers, 2014, 102, 437-443. | 2.4 | 0 |
| 63 | Structure, function and assembly of Rubisco activase. FASEB Journal, 2013, 27, 580.5. | 0.5 | 0 |