

Publication List of Noboru Mataga

Original Papers

I. Dynamics and Mechanisms of Photoinduced Electron Transfer, Exciplex, Excimer Formation, and Related Processes in Solutions and Neat Liquids.

1. Adiabatic and Nonadiabatic Electron-Transfer Mechanism of Fluorescence Quenching. N. Mataga, K. Ezumi, and K. Takahashi *Z. Phys. Chem. N. F.* **44**, 250 (1965).
2. Fluorescence Decay Times of Naphthalene and Naphthalene Excimers. N. Mataga, M. Tomura, and H. Nishimura *Mol. Phys.* **9**, 367 (1965).
3. Temperature Effects on Charge-Transfer Fluorescence Spectra and Mechanisms of Charge-Transfer Interactions in the Excited Electronic State. N. Mataga, K. Ezumi, and T. Okada *Mol. Phys.* **10**, 201 (1966).
4. Fluorescence of Pyrene-*N,N*-Dimethylaniline Complex in Non-Polar Solvent. N. Mataga, T. Okada, and K. Ezumi *Mol. Phys.* **10**, 203 (1966).
5. Luminescence of Heteropolar Excimers. N. Mataga, T. Okada and K. Ezumi, *Proceedings of the International Conference on Luminescence*, p 431 (The Hungarian Academy of Sciences: Budapest 1966).
6. Solvent Effects on Charge-Transfer Spectra with Implications for the Electron-Transfer Reaction in the Excited State. N. Mataga, T. Okada, and N. Yamamoto *Bull. Chem. Soc. Jpn.* **39**, 2562 (1966).
7. The Luminescence of Heteropolar Excimer in the Cyclohexane Matrix. N. Mataga, T. Okada, and H. Oohari *Bull. Chem. Soc. Jpn.* **39**, 2563 (1966).
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9. Electronic Processes in Heteroexcimer and the Mechanism of Fluorescence Quenching. N. Mataga, T. Okada, and N. Yamamoto *Chem. Phys. Lett.* **1**, 119 (1967).
10. Studies on the Fluorescence Decay Times of Anthracene and Perylene Excimers in Rigid Matrixes at Low Temperatures in Relation to the Structures of Excimers. N. Mataga, Y. Torihashi, and Y. Ota *Chem. Phys. Lett.* **1**, 385 (1967).
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12. Electron Donor–Acceptor Interactions in the Fluorescent State of Tetracyanobenzene-Aromatic Hydrocarbon Complexes. N. Mataga and Y. Murata *J. Am. Chem. Soc.* **91**, 3144 (1969).
13. Possible Mechanisms of Intermolecular Charge Transfer and Electron-Transfer Processes in the Excited Electronic States. N. Mataga and O. Tanimoto *Theor. Chem. Acta* **15**, 111 (1969).
14. Fluorescence Quenching Reactions due to the Intermolecular Electron-Transfer Process in Solution. T. Okada, H. Oohari, and N. Mataga *Bull. Chem. Soc. Jpn.* **43**, 2750 (1970).
15. Photoionization of s-Tetracyanobenzene-Toluene Complex in its Lowest Excited Singlet State. H. Masuhara, M. Shimada, and N. Mataga *Bull. Chem. Soc. Jpn.* **43**, 3316 (1970).
16. Multichannel Possibility of Electron-Transfer Reaction in the Excited State. N. Mataga *Bull. Chem. Soc. Jpn.* **43**, 3623 (1970).
17. Fluorescence Spectra and Excited Singlet–Singlet Absorption Spectra of s-Tetracyanobenzene EDA Complexes by Laser Excitation. H. Masuhara and N. Mataga *Chem. Phys. Lett.* **6**, 608 (1970).
18. Time-Resolved Fluorescence Spectra of s-Tetracyanobenzene-Toluene Complex. K. Egawa, N. Nakashima, N. Mataga, and C. Yamanaka *Chem. Phys. Lett.* **8**, 108 (1971).
19. Effects of External Pressure on the Light Absorption and Fluorescence of s-Tetracyanobenzene Complexes. Y. Torihashi, Y. Furutani, K. Yagii, N. Mataga, and A. Sawaoka, *Bull. Chem. Soc. Jpn.* **44**, 2985 (1971).
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22. Reabsorption Effect of the Charge-Transfer Fluorescence by the Excited Electron Donor–Acceptor Complex Itself. H. Masuhara and N. Mataga *Bull. Chem. Soc. Jpn.* **45**, 43 (1972).
23. Photophysical Primary Processes of Electron Donor–Acceptor Complex. 1. s-Tetracyanobenzene-Toluene Complex at 77 K. H. Masuhara, N. Tsujino, and N. Mataga *Chem. Phys. Lett.* **12**, 481 (1972).
24. Laser Photolysis Studies on the Formation of Solvated Ion Radicals in the Pyrene-*N,N*-Dimethylaniline System in Various Solvents. Y. Taniguchi, Y. Nishina, and N. Mataga *Bull. Chem. Soc. Jpn.* **45**, 764 (1972).
25. Laser Photolysis Studies on the Ionization of *N*-Vinylcarbazole in the Presence and in the Absence of Electron Acceptors. Y. Taniguchi, Y. Nishina, and N. Mataga *Chem. Lett.* **221** (1972).
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29. The Electronic Structure of the Electron Donor–Acceptor Complex in its Lowest Excited Singlet State. H. Masuhara and N. Mataga *Z. Phys. Chem. N. F.* **80**, 113 (1972).

30. Intramolecular Exciplex Formation in Some Compounds Containing Condensed Aromatic Hydrocarbon and *N,N*-Dimethylaniline Moieties. R. Ide, M. Sakata, S. Misumi, T. Okada, and N. Mataga *Chem. Commun.* 1009 (1972).
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41. Excited Singlet–Singlet Absorption Spectra of Weak EDA Complexes with Liquid Donors. N. Tsujino, H. Masuhara, and N. Mataga *Chem. Phys. Lett.* 21, 301 (1973).
42. Time-Resolved Fluorescence Studies on the Formation and Decomposition Processes of the Aromatic Hydrocarbon–Aliphatic Amine Exciplex in Solution. N. Nakashima, N. Mataga, and C. Yamanaka *Int. J. Chem. Kinet.* 5, 833 (1973).
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48. Electronic Structures and Dynamic Behaviors of Some Exciplex Systems. N. Mataga. In *The Exciplex*; M. Gordon and W. R. Ware, Eds.; p 113 (Academic Press: New York, 1975).
49. Radiation-Induced Charge-Transfer Luminescence and its Primary Processes in Toluene. H. Masuhara, T. Miyazaki, N. Mataga, and Z. Kuri *Int. J. Radiat. Phys. Chem.* 7, 519 (1975).
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52. Picosecond Flash Spectroscopy of Solvent-Induced Intramolecular Electron Transfer in the Excited 9,9'-Bianthryl. N. Nakashima, M. Murakawa, and N. Mataga *Bull. Chem. Soc. Jpn.* 49, 854 (1976).
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