

SFG光谱的早期工作整理 (1983-1995)

(pre-VSFG)

年份	主要工作和贡献者
83-1.	B. Dick and R. M. Hochstrasser
	J. Chem. Phys., 78 (1983) 3398 - 3400
	"Spectroscopic and Line-narrowing Properties of Resonant Sum and Difference Frequency generation"
84-1.	B. Dick and R. M. Hochstrasser Chem.
	Phys., 91 (1984) 1 - 11
	"Nonlinear Spectroscopic Studies Using Sum- and Difference Frequency Generation".
85-1.	B. Dick, A. Gierulski, and G. Marowsky Appl.
	Phys. B, 38(1985) 107 - 116
	"Determination of the Nonlinear Optical Susceptibility $\chi(2)$ of Surface Layers by Sum and Difference Frequency Generation in Reflection and Transmission".
85-2.	B. Dick
	Chem. Phys., 96 (1985) 199 - 213
	"Irreducible Tensor Analysis of Sum- and Difference-Frequency Generation in Partially Oriented Samples".
86-1.	D. C. Nguyen, R. E. Muenchausen, R. A. Keller, and N. S. Nogar
	Opt. Commun., 60 (1986) 111 - 116
	"Resonantly Enhanced Sum-Frequency Generation in Adsorbed Monolayers of Rhodamine 6G".
87-1.	S. A. Cresswell and J. K. Stehler
	Applied Spectrosc., 41 (1987) 1329 - 1335
	"Factors Affecting Quantitative Studies of Surface Adsorbates Using Multiresonant Second-Order Nonlinear Spectroscopy".

年份	主要工作和贡献者
87-2.	S. A. Cresswell and J. K. Steehler
	Applied Spectrosc., 41 (1987) 1444 -1446
	"Selective Observation of Adsorbate Mixtures Using Resonant Sum Frequency Generation".

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87-3.	J. H. Hunt, P. Guyot-Sionnest, and Y. R. Shen
	Chem. Phys. Lett., 133 (1987) 189 - 192
	"Observation of C-H Stretch Vibrations of Monolayers of Molecules Optical Sum-Frequency Generation".
87-4.	X. D. Zhu, H. Suhr, and Y. R. Shen
	Phys. Rev. B, 35 (1987) 3047 - 3050
	"Surface Vibrational Spectroscopy by Infrared-Visible Sum Frequency Generation".
87-5.	P. Guyot-Sionnest, J. H. Hunt, and Y. R. Shen
	Phys. Rev. Lett., 59 (1987) 1597 - 1600
	"Sum-Frequency Vibrational Spectroscopy of Langmuir Film: Study of Molecular Orientation of a Two-Dimensional System".
87-6.	A. L. Harris, C. E. D. Chidsey, N. J. Levinos, and D. N. Loiacono
	Chem. Phys. Lett., 141 (1987) 350 - 356
	"Monolayer Vibrational Spectroscopy by Infrared-Visible Sum Generation at Metal and Semiconductor Surfaces".
87-7	J. H. Hunt, P. Guyot-Sionnest, and Y. R. Shen
	Springer Ser. Opt. Sci., 55, Laser Spectrosc., 8 (1987) 253 - 256
	"Second-Harmonic and Sum Frequency Generation for Surface Studies".
88-1.	P. Guyot-Sionnest, R. Superfine, J. H. Hunt, and Y. R. Shen
	Chem. Phys. Lett., 144 (1988) 1 - 5
	"Vibrational Spectroscopy of Silane Monolayer at Air/Solid and Liquid/ Solid Interfaces Using Sum-Frequency Generation".

年份	主要工作和贡献者
88-2.	R. Superfine, P. Guyot-Sionnest, J. H. Hunt, C. T. Kao, and Y. R. Shen
	Surf. Sci., 200 (1988) L445 - L450
	"Surface Vibrational Spectroscopy of Molecular Adsorbates on Metals and Semiconductors by Infrared-Visible Sum-Frequency Generation".
89-1.	A. L. Harris and N. J. Levinos
	J. Chem. Phys., 90 (1989) 3878 - 3379
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89-2.	Y. R. Shen
	Nature, 337 (1989) 519 - 524
	"Surface Properties Probed by Second-Harmonic and Sum-Frequency Generation".
89-3.	T. F. Heintz, F. J. Himpsel, and E. Palange
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	"Electronic Transitions at the CaF ₂ /Si(111) Interface Probed by Resonant Three-Wave-Mixing Spectroscopy".
89-4.	W. P. Acker, D. A. Leach, and R. K. Chang
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	"Third-Order Optical Sum-Frequency Generation in Micrometer-sized Liquid Droplets"
90-1	J. Miragliotta, R. S. Polizzotti, P. Rabinowitz, S. D. Cameron, and R. B. Hall
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	"IR-Visible Sum-Frequency Generation Study of Methanol Adsorption and Reaction on Ni(100)".
90-2.	J. Miragliotta, R. S. Polizzotti, P. Rabinowitz, S. D. Cameron, and R. B. Hall
	Appl. Phys. A, 51 (1990) 221 - 225
	"Infrared-Visible Sum-Frequency Generation Spectra of CO on Ni(100)
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	Phys. Rev. Lett., 64 (1990) 2086 - 2089
	"Molecular Vibrational Energy Relaxation at a Metal Surface: Methyl Thioate on Ag".
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年份	主要工作和贡献者
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90-6.	R. Superfine, J.Y. Huang, and Y. R. Shen
	Optics Lett., 15 (1990) 1276 - 1278
	"Phase Measurement for Surface Infrared-Visible Sum-Frequency Generation".
90-7.	P. Guyot-Sionnest and A. Tadjeddine
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	"Spectroscopic Investigations of Adsorbates at the Metal-Electrolyte Interface Using Sum Frequency Generation".
90-8.	A. L. Harris, N. J. Levinos, L. Rothberg, L. H. Dubois, L. Dhar, A. F. Shane, and M. Morin
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	J. Electron Spectrosc. Relat. Phenom., 54/55 (1990) 27 - 38
	"Lifetime of an Adsorbate-Substrate Vibration Measured by Sum Frequency Generation: H on Si(111)".
90-10.	P. Dumas, Y. J. Chabal, and G. S. Higashi
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91-1.	R. Superfine, J.Y. Huang, and Y. R. Shen
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91-5.	N. Akamatsu, K. Domen, C. Hirose, T. Onishi, H. Shimizu, and K. Masutani
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	"SFG Study of RotationalAnisotropy of Cadmium Arachidate LangmuirBlodgett Films"
91-6.	C. D. Bain, P. B. Davies, T. H. Ong, and R. N. Ward
	Langmuir, 7 (1991) 1563 - 1566
	"QuantitativeAnalysis of Monolayer Composition by Sum-Frequency Vibrational Spectroscopy"
91-7.	V. Vogel and Y. R. Shen
	Annu. Rev. Mater. Sci., 21 (1991) 515 - 534
	"Air/Liquid Interfaces and Adsorbed Molecular Monolayers Studied with Nonlinear Optical Techniques". (review)
91-8.	A. Tadjeddine and P. Guyot-Sionnest
	Electrochim. Acta, 36 (1991) 1849 - 1854
	"Spectroscopic Investigation of Adsorbed Cyanide and Thiocyanate on Platinum Using Sum Frequency Generation"
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	Phys. Rev. B, 45 (1992) 1522 - 1524
	"Vibrational Spectra of Hydrogen on Diamond C(111) 1×1".
92-3.	M. Morin, P. Jakob, N. J. Levinos, Y. J. Chabal, and A. L. Harris
	J. Chem. Phys., 96 (1992) 6203 - 6212
	"Vibrational Energy Transfer of Hydrogen-Terminated Vicinal Si(111) Surfaces: Interadsorbate Energy Flow".
92-4.	M. Morin, N. J. Levinos, and A. L. Harris
	J. Chem. Phys., 96 (1992) 3950 - 3956
	"Vibrational Energy Transfer of CO/Cu(100): Nonadiabatic Vibration/ Electron Coupling"
92-5.	S. R. Hatch, R. S. Polizzotti, S. Dougal, and P. Rabinowitz
	Chem. Phys. Lett., 196 (1992) 97 - 102
	"Surface Vibrational Spectroscopy of the Vapor/Solid and Liquid/Solid Interface of Acetonitrile on ZrO ₂ ".
92-6.	T. F. Heinz
	in Nonlinear Surface Electromagnetic Phenomena (H. E. Ponath and G. I. Stegeman eds., North Holland, Amsterdam, 1992), pp. 353 - 416
	"Second-Order Nonlinear Optical Effects at Surfaces and Interfaces". (review)
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	Appl. Spectrosc., 46 (1992) 1051 - 1072
	"Formulas for the Analysis of the Surface SFG Spectrum and Transformation Coefficients of Cartesian SFG Tensor Components"
92-8.	T. Kato, M. Hayashi, and Y. Fujimura
	Chem. Phys. Lett., 194 (1992) 380 - 385
	"Effects of Intermolecular Vibronic Dephasing on Time-Resolved Sum Frequency Generation from Molecules at an Interface".
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93-1.	H. Seki, T. Yamada, T. Chuang, R. P. Chin, J. Y. Huang, and Y. R. Shen
	Diamond Rel. Mater., 2 (1993) 567 - 572
	"Investigation of Diamond C(111)(2×1) Surface Exposed to Hydrogen and Hydrocarbon Species Using Second-Harmonic Generation and Sum Frequency Generation".
93-2.	T. H. Ong, P. B. Davies, and C. D. Bain
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	"Sum-Frequency Spectroscopy of Monolayers of Alkoxy-Terminated Alkanethiols in Contact with Liquids".
93-3.	S. R. Hatch, R. S. Polizzotti, S. Dougal, and P. Rabinowitz
	J. Vac. Sci. Technol. A, 11 (1993) 2232 - 2238
	"in situ Surface Vibrational Spectroscopy of the Vapor/Solid and Liquid/ Solid Interfaces of Acetonitrile on ZrO ₂ ".
93-4.	K. Wolfrum, H. Graener, and A. Laubereau
	Chem. Phys. Lett., 213 (1993) 41 - 46
	"Sum-Frequency Vibrational Spectroscopy at the Liquid-Air Interface of Methanol Water Solutions".
93-5.	K. Domen, N. Akamatsu, H. Yamamoto, A. Wada, and C. Hirose
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	Appl. Spectrosc., 47 (1993) 167 - 172

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93-9.	K. Kuhnke, M. Morin, P. Jakob, N. J. Levinos, Y. J. Chabal, and A. L. Harris
	J. Chem. Phys., 99 (1993) 6114 - 6125
	"Vibrational Energy Transfer Among Adsorbate Modes: Picosecond Dynamics on Stepped H/Si(111)".
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	J. Electron Spectrosc. Relat. Phenom., 64/65 (1993) 507 - 513
	"The Orientation Analysis from Polarization Characteristics of the Surface Vibrational SFG Spectrum of HCO ₂ on MgO(001) Surface".
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	Soviet Electrochemistry (Elektrokhimiya), 29 (1993) 73 - 78
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	J. Electron Spectrosc. Relat. Phenom., 64/65 (1993) 1 - 9
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93-14	T. J. Chuang
	Ber. Bunsen-Ges., Phys. Chem., 97 (1993) 1661 - 1663
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93-15.	A. Peremans, A. Tadjeddine, M. Suhren, R. Prazeres, F. Glotin, D. Jaroszynski, and J. M. Ortega
	J. Electron Spectrosc. Relat. Phenom., 64/65 (1993) 391 - 393

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	"Adsorption of Thiocyanate on Polycrystalline Silver and Gold Electrodes Studied in situ by Sum-Frequency Spectroscopy".
93-17.	J. C. Owrutsky, J. P. Culver, M. Li, Y. R. Kim, J. Sarisky, M. S. Yegeneh, A. G. Yodh, and R. M. Hochstrasser
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	"Surfaces Probed by Nonlinear Optics". (review)
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94-4.	N. Watanabe, H. Yamamoto, A. Wada, K. Domen, C. Hirose, T. Ohtake, and N. Mino
	Spectrochim. Acta, 50A (1994) 1529 - 1537
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	J. Chinese Chem. Soc., 41 (1994) 275 - 278
	"Vibrational Spectroscopy of Surface Adsorbates by Sum Frequency Generation (SFG)".
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	Chem. Phys. Lett., 220 (1994) 481 - 485
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94-8	S. Perry and G. A. Somorjai
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94-9.	K. Wolfrum and A. Laubereau
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	"Vibration Sum-Frequency Spectroscopy of an Adsorbed Monolayer of Hexadecanol on Water. Destructive Interference of Adjacent Lines".
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94-13.	R. N. Ward, D. C. Duffy, P. B. Davies, and C. D. Bain
	J. Phys. Chem., 98 (1994) 8536 - 8542
	"Sum-Frequency Spectroscopy of Surfactants Adsorbed at a Flat Hydrophobic Surface"
94-14	T. Ando, T. Aizawa, M. Kamo, Y. Sato, T. Anzai, H. Yamamoto, A. Wada, K. Domen, and C. Hirose

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94-15.	P. Dumas
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	"Recent Aspects of Surface Infrared Spectroscopy".
95-1.	Y. Goto, N. Akamatsu, K. Domen, and C. Hirose
	J. Phys. Chem., 99 (1995) 4086 - 4090
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95-2.	P. Cremer, C. Stanners, J. W. Niemantsverdriet, Y. R. Shen, and G. Somorjai
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95-4.	K. Domen, H. Yamamoto, N. Watanabe, A. Wada, and C. Hirose
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95-5.	T. Anzai, H. Maeoka, A. Wada, K. Domen, C. Hirose, T. Ando, and Y. Sato
	J. Mol. Struct., 352/353 (1995) 455-463
	"Vibrational Sum-Frequency Generation Spectroscopy of a Homo-epitaxially Grown Diamond C(100) Surface".
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	J. Chem. Phys., 102 (1995) 4269-4278
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95-8	V. Pflumio, J. C. Vallet, A. J. Boeglin, A. A. Villaeys, and J. P. Lavoine
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95-10.	D. C. Duffy, P. B. Davies, and A. M. Creeth
	Langmuir, 11 (1995) 2931-2937
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	Surf. Sci., 335 (1995) 210-220
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95-12.	A. Peremans and A. Tadjeddine
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95-14.	D. C. Duffy, P. B. Davies, and C. D. Bain
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95-15.	Kazunari Domen, Hiroyoshi Yamamoto, Nobuyuku Watanabe, Akihide Wada, and Chiaki Hirose
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