

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENTS	iii
ABSTRACT (ENGLISH)	iv
ABSTRACT (THAI)	vi
LIST OF TABLES	xii
LIST OF FIGURES	xiv
ABBREVIATIONS AND SYMBOLS	xviii
CHAPTER 1 INTRODUCTION	1
1.1 Crystal structures and properties of ternary metal sulfides	3
1.1.1 Copper bismuth sulfide, Cu_3BiS_3	3
1.1.2 Copper antimony sulfide, Cu_3SbS_4	5
1.1.3 Copper iron sulfide, CuFeS_2	7
1.2 Application of ternary metal sulfide	8
1.3 Literature reviews	11
1.3.1 Synthesis of copper bismuth sulfide	11
1.3.2 Synthesis of copper antimony sulfide	13
1.3.3 Synthesis of copper iron sulfide	14
1.4 Microwave Radiation Synthesis	16

1.4.1	A brief history of microwave radiation synthesis	16
1.4.2	Microwave radiation	18
1.4.3	Microwave-materials interactions	20
1.4.4	Microwave heating	28
1.5	Biomolecule-assisted synthesis, L-cysteine	31
1.5.1	Biomolecule-assisted hydrothermal synthesis	32
1.5.2	Biomolecule-assisted solvothermal synthesis	33
1.5.3	Biomolecule-assisted microwave radiation synthesis	34
1.5.4	L-cystiene	34
1.6	General characterization techniques for ternary metal sulfide materials	36
1.6.1	Structural characterization	36
1.6.1.1	X-ray diffraction	36
1.6.1.2	Scanning electron microscopy	40
1.6.1.3	Transmission electron microscopy	43
1.6.1.4	Selected area electron diffraction	46
1.6.1.5	Raman spectroscopy	49
1.6.1.6	X-ray photoelectron spectroscopy	52
1.6.2	Optical characterization	54
1.6.2.1	UV-Vis-NIR spectroscopy	54
1.6.2.2	Photoluminescence spectroscopy	56
1.7	Research objectives	60

CHAPTER 2	EXPERIMENTAL PROCEDURES	61
2.1	Chemical reagents and equipments	61
2.2	Experiments	62
2.2.1	Cyclic microwave-assisted synthesis of Cu_3BiS_3 Dendrites using L-cysteine as a sulfur source and complexing agent	62
2.2.2	Characterization of Cu_3SbS_4 microflowers produced by a cyclic microwave radiation	63
2.2.3	Cyclic microwave-assisted synthesis of CuFeS_2 nanoparticles using biomolecules as sources of sulfur and complexing agent	64
2.3	Characterization	66
2.3.1	X-ray diffraction (XRD)	66
2.3.2	Field-emission scanning electron microscopy (FE-SEM)	67
2.3.3	Transmission electron microscopy (TEM)	68
2.3.4	Raman spectroscopy	69
2.3.5	Luminescence spectroscopy	70
2.3.6	UV-Vis spectroscopy	71
2.3.7	X-ray photoelectron spectroscopy	72
CHAPTER 3	RESULTS AND DISCUSSION	73
3.1	Cyclic microwave-assisted synthesis of Cu_3BiS_3 dendrites using L-cysteine as a sulfur source and complexing agent	73

3.2	Characterization of Cu_3SbS_4 microflowers produced by a cyclic microwave radiation	90
3.3	Cyclic microwave-assisted synthesis of CuFeS_2 nanoparticles using biomolecules as sources of sulfur and complexing agent	103
CHAPTER 4 CONCLUSIONS		117
REFERENCES		119
APPENDICES		128
APPENDIX A		129
APPENDIX B		143
CURRICURUM VITAE		144
INTERNATIONAL PUBLICATIONS		

LIST OF TABLES

Table	Page
1.1 Powder diffraction pattern as a function of various crystal structure, specimen and instrumental parameters	39
1.2 Systematic Absences for Electron and X-ray diffraction	48
2.1 Various reaction conditions for cyclic microwave radiation synthesis of Cu_3BiS_3	63
2.2 Various reaction conditions for cyclic microwave radiation synthesis of Cu_3SbS_4	64
2.3 Various reaction conditions for cyclic microwave radiation synthesis of CuFeS_2	65
3.1 Calculated lattice parameter of Cu_3BiS_3 from the experiment	75
3.2 The 2θ diffraction angles and intensities of the JCPDS no. 43-1479 and the data of Cu_3BiS_3	75
3.3 The spot diffraction pattern values of Cu_3BiS_3 produced under microwave radiation 40 cycles, microwave power 300 W	80
3.4 The ring diffraction pattern values of Cu_3BiS_3 produced under microwave radiation 40 cycles, microwave power 450 W	82
3.5 Ring diffraction pattern values of Cu_3BiS_3 produced under microwave radiation 40 cycles, microwave power 600 W	83
3.6 Ring diffraction pattern values of Cu_3BiS_3 produced under microwave radiation 40 cycles, microwave power 700W	84

3.7 The 2θ diffraction angles and intensities of the JCPDS no. 10-0472 and the data of Cu_3SbS_4	92
3.8 Calculated lattice parameter of Cu_3SbS_4 from the experiment comparing with the JCPDS file	92
3.9 Measured composition of Cu_3SbS_4 by EDX analysis produced by using 2:2:4 molar ratio Cu:Sb:S in 40 ml ethylene glycol	94
3.10 Summarized different synthesized-conditions of the samples and their products prepared by cyclic microwave radiation at 300 W	104
3.11 Measured composition of CuFeS_2 (sample CA-1) by EDX analysis	107
3.12 Measured composition of CuFeS_2 (sample CA-2) by EDX analysis	108
3.13 Ring diffraction pattern values of CuFeS_2 produced under microwave radiation 40 cycles, microwave power 300 W, CA-1 sample	111
3.14 Ring diffraction pattern values of CuFeS_2 produced under microwave radiation 40 cycles, microwave power 300 W, CA-2 sample	112

LIST OF FIGURES

Figure	Page
1.1 The crystal structure of Cu_3BiS_3 compounds	4
1.2 The crystal structure of Cu_3SbS_4 compounds	6
1.3 The crystal structure of CuFeS_2 compounds	7
1.4 The range of wavelengths and frequencies of electromagnetic spectrum	19
1.5 Interaction of the electromagnetic field with materials	22
1.6 The various polarization mechanisms	26
1.7 Molecular structure of L-cystiene	34
1.8 Simulated molecular structure of L-cystiene	35
1.9 The simulated powder diffraction pattern of copper	39
1.10 Signals generated when a high-energy beam of electrons interacts with a thin specimen.	40
1.11 The Schematic diagram of scanning electron microscopy	42
1.12 Schematic diagram of a TEM set-up	45
1.13 Illustration of Ewald sphere construction, and diffraction	47
1.14 Schematic illustrations of Rayleigh scattering as well as Stokes and anti-Stokes Raman scattering	52
1.15 The energy-level diagram for X-ray photoelectron spectroscopy (XPS) from reciprocal lattice point	53
1.16 Schematic of experimental setup for room- and low-temperature PL measurements	57

2.1 X-ray diffractometer	66
2.2 Scanning electron microscope	67
2.3 Transmission electron microscope	68
2.4 Raman spectrometer	69
2.5 Luminescence spectrometer	70
2.6 UV-Vis-NIR spectrophotometer	71
2.7 X-ray photoelectron spectrometer	72
3.1 XRD spectra of the products prepared using different microwave power	74
3.2 SEM image of Cu_3BiS_3 synthesized under condition of microwave power 300 W, 40 cycles	78
3.3 SEM image of Cu_3BiS_3 synthesized under condition of microwave power 450 W, 40 cycles	78
3.4 SEM image of Cu_3BiS_3 synthesized under condition of microwave power 600 W, 40 cycles	79
3.5 SEM image of Cu_3BiS_3 synthesized under condition of microwave power 700 W, 40 cycles	79
3.6 TEM image and SAED pattern of Cu_3BiS_3 synthesized under microwave radiation 40 cycles, microwave power 300 W	80
3.7 TEM image and SAED pattern of Cu_3BiS_3 synthesized under microwave radiation 40 cycles, microwave power 450 W	81
3.8 TEM images and SAED pattern of Cu_3BiS_3 synthesized under microwave irradiation 40 cycles, microwave power 600 W	83
3.9 TEM images and SAED pattern of Cu_3BiS_3 synthesized under microwave irradiation 40 cycles, microwave power 700 W	84


3.10 SAED pattern, simulated SAED pattern and HRTEM images of Cu ₃ BiS ₃ synthesized under microwave irradiation 40 cycles	86
3.11 PL emission of Cu ₃ BiS ₃ dendrites synthesized at 700 W	88
3.12 The band gap energy of the Cu ₃ BiS ₃ prepared at microwave power 600 W and 700 W	89
3.13 XRD patterns of Cu ₃ SbS ₄ produced from different molar ratios of Cu:Sb:S	91
3.14 SEM image of Cu ₃ SbS ₄ synthesized at 2:2:4 molar ratio of Cu:Sb:S, and high magnificent SEM images of the product	93
3.15 the analytic area of product and EDX analysis of Cu ₃ SbS ₄ produced by using 2:2:4 molar ratio Cu:Sb:S in 40 ml ethylene glycol	95
3.16 SEM image of Cu ₃ SbS ₄ synthesized at 3:3:4 molarratio Cu:Sb:S in 40 ml ethylene glycol	96
3.17 SEM image of Cu ₃ SbS ₄ synthesized at 3:3:4 molarratio Cu:Sb:S in 60 ml ethylene glycol	96
3.18 SEM images of Cu ₃ SbS ₄ produced from 2:2:4 molar ratio Cu:Sb:S in 40 ml ethylene glycol by 300 W	98
3.19 TEM and HRTEM images, and SAED and simulated patterns of Cu ₃ SbS ₄ produced by 300 W	101
3.20 Raman shifts of Cu ₃ SbS ₄ produced from 2:2:4 molar ratio Cu:Sb:S in 40 ml ethylene glycol by 300W	102
3.21 $(\alpha h\nu)^2$ versus $h\nu$ plot for determination of energy gap (E_g) of Cu ₃ SbS ₄ produced from 2:2:4 molar ratio Cu:Sb:S in 40 ml ethylene glycol	103
3.22 XRD patterns of samples CN, CC, CA-1 and CA-2	105
3.23 SEM images of sample CA-1 synthesized at 300W, 40 cycles	105

3.24 SEM images of sample CA-2 synthesized at 300W, 40 cycles	106
3.25 EDX spectrum of sample CA-1	107
3.26 EDX spectrum of sample CA-2	108
3.27 TEM images and SAED patterns of sample CA-1	110
3.28 TEM images and SAED patterns of sample CA-2	111
3.29 Raman spectra of CuFeS ₂ sample CA-1 and sample CA-2	113
3.30 XPS measurement of CuFeS ₂ sample CA-1 and sample CA-2	114

ABBREVIATIONS AND SYMBOLS

Å	=	angstrom
kg	=	kilogram
m	=	meter
nm	=	nanometer
mm	=	millimeter
cm	=	centimeter
µm	=	micrometer
°C	=	degree celsius
E _g	=	energy gap
eV	=	electron volt
s	=	time second
min	=	time minute
h	=	time hour
emu	=	electromagnetic unit
mA	=	milliamp
V	=	volt
kV	=	kilovolt
K	=	kelvin
DMF	=	dimethylformamide
NMP	=	N-methylpyrrolidone
GHz	=	gigahertz

MHz	=	megahertz
W	=	watt
kW	=	kilowatt
ϵ'	=	dielectric permittivity
μ'	=	magnetic permeability
ϵ_0	=	permittivity of free space
ϵ_r	=	relative permittivity
ϵ^*	=	complex permittivity
ϵ''	=	dielectric loss factor
μ_0	=	permeability of free space
μ_r	=	relative permeability
μ^*	=	complex permeability
σ	=	Dielectric conductivity
ω	=	Angular frequency
λ	=	wavelength
XRD	=	X-ray diffractometry
FESEM	=	field-emission scanning electron microscopy
TEM	=	transmission electron microscopy
HRTEM	=	high resolution transmission electron microscopy
SAED	=	selected area electron diffraction
UV	=	ultraviolet
Vis	=	visible
NIR	=	near-infrared
XPS	=	X-Ray photoelectron spectroscopy



mA	=	milliamp
θ	=	theta
JCPDS	=	Joint Committee Powder Diffraction Society
deg	=	degree
g	=	gram
ml	=	milliliter
α	=	absorption coefficient
h	=	Planck's constant
ν	=	frequency
d	=	interplanar spacing
M.W.	=	molecular weight
F.W.	=	formula weight
%	=	percent
h.	=	hours
cyc.	=	cycles

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