



Appendix C

PROJECT LIST



NO.	Project Name	Project Leader	Funding Source	Time	Funding (10,000 RMB)
1	Photosensitivity mechanism and applied basic research about SiO ₂ glass doped tin	JIA Hongzhi	Innovative project of Shanghai municipal education commission	2009 - 2011	8
2	Unlabeled highly Sensitive guided mode resonance biosensor research	ZHANG Dawei	Shanghai city star	2010 - 2011	5
3	Optical tomography three-dimensional microscopic imaging theory and technology research based on laser self-mixing effect	MA Junshan	Innovative project of Shanghai municipal education Commission	2009 - 2011	8
4	Theoretical and experimental study about guided mode resonance filters bandwidth control new method	ZHANG Dawei	National natural science foundation	2010 - 2012	20
5	Ring routing optical fiber transmission technology research	LI Yi	Shanghai institute of electrical engineering	2010 - 2010	13
6	Femtosecond pulse laser manufacture silicon-based nanostructure photovoltaic material research	ZHU Yiming	Shanghai science and technology commission, special nanometer technology	2009 - 2011	40
7	New type of optical fiber vibration sensing technology research	ZHANG Xuedian	State ministry of science and technology, innovation special	2009 - 2010	40
8	GaAs dynamic conductance spectrum research in the terahertz band under ultra-high electric field	ZHU Yiming	Shanghai science and technology commission pujiang talent program	2009 - 2011	20
9	Movement of non-equilibrium carriers in GaAs under high	ZHU Yiming	Shanghai municipal education	2009 - 2010	3



	electric field research using time-domain terahertz spectroscopy method		commission, outstanding youth fund		
10	GaAs terahertz gain characteristics research using time-domain terahertz spectroscopy method	ZHU Yiming	Shanghai municipal education commission, dawn plan	2009 - 2010	15
11	Intelligent nano-optical material research Based on thermo-optic effect	LI Yi	Shanghai talent development fund subsidy scheme	2009 - 2010	10
12	Diffractive micro lens array and UV focal plane array monolithically integrated research	LI Yi	Shanghai municipal education commission, scientific and technological research key project	2010 - 2013	15
13	GaAs dynamic conductance spectrum characteristics research using time-domain terahertz spectroscopy method	ZHU Yiming	National ministry of education, doctoral program new teacher fund	2010 - 2011	3
14	Negative differential conductance in GaAs research using time-domain terahertz spectroscopy method	ZHU Yiming	Shanghai education committee , scientific research innovation project	2009 - 2010	8
15	Frequency division Multiplexing fluorescent confocal microscopic imaging technology research of biological cells	ZHENG Jihong	Shanghai science and technology commission, Venus plan	2010 - 2011	15
16	Standardization management (second batch)	ZHUANG Songlin	Provincial ministries and commissions major (point) project	2009 - 2011	50
17	Mechanism research of Immersion lithography birefringence polarization imaging	GUO Hanming	National natural science fund committee	2009 - 2011	20
18	Large refractive index	ZHENG	Shanghai	2009 - 2011	8



	modulation inclined stripe holographic waveguide coupler device research	Jihong	municipal education commission, innovative projects		
19	Research and development of individual soldier helmet display system	YANG Bo	China aviation industry corporation 613 research institute	2009 - 2010	42
20	Research of frequency division multiplexing fluorescence microscopic imaging technology based on LCD array modulation	ZHENG Jihong	National ministry of education, returned personnel start funds	2010 - 2011	3
21	Applied research of free-form surface devices in modern optical system	YANG Bo	Shanghai municipal education commission	2010 - 2012	8
22	Frequency division multiplexing fluorescent confocal microscopic Imaging technology research based on electronically controlled polymer dispersed liquid crystal (PDLC) array modulation	ZHENG Jihong	National natural science fund committee	2009 - 2011	22
23	Basic research of fiber monitoring and early warning key technology for bridge dam earthquake disaster	ZHUANG Songlin	Shanghai science and technology commission	2010 - 2012	30
24	Research and product development of indoor LED lighting key Technology	ZHUANG Songlin	863 program	2009 - 2012	34.2
25	Research and development of high-performance LED flat lighting optical system	YANG Bo	Changzhou fengsheng optoelectronic technology Co., Ltd	2009 - 2013	10
26	Research and development of double frequency High reverse film	ZHANG Rongfu	Jilin dongguang precision machinery factory	2009 - 2010	43.7
27	Application of semiconductor nano crystal in high efficient white light emitting	ZHUANG Songlin	Shanghai nano special	2010 - 2012	60



	diode				
28	Visual prosthesis shimmer electromechanical system research	ZHUANG Songlin	Ministry of science and technology 973 rolling	2011 - 2012	193
29	Development and application research of cell microscopic viewer	ZHANG Dawei	National science and technology support plan	2010 - 2013	312
30	Terahertz	ZHU Yiming	China electronics technology group 27 research institute 863 project	2011	3
31	Measurement of cut-off frequency of high electron mobility transistor HEMT using time-domain terahertz spectrum method	ZHU Yiming	National natural science funds	2011 - 2013	20
32	UV radiation accurate calibration measurement platform	HU Qi	Shanghai science and technology commission major project	2008 - 2010	50
33	Research of all light control optical waveguide neurons pulse coupling effect and dendritic coding device	CHEN Baoxue	National natural science funds	2011 - 2013	29
34	UV precision spectrum control research based on femtosecond laser	PENG Yan	Shanghai municipal education commission, scientific research innovation general projects (science)	2011 - 2013	8
35	Vector field imaging characteristics and experimental research of off-axis lighting large numerical aperture optical system	GUO Hanming	Shanghai municipal education commission, Chenguang program	2007 - 2009	6
36	Project supported by special funds for doctoral thesis author	GUO Hanming	Doctoral dissertation special funding	2010 - 2014	74
37	Solution of monitoring safety operation of strong intelligent grid	ZHANG Xuedian	Shanghai huawei optical fiber sensing	2009 - 2012	5



	based on all fiber optic sensor technology		technology co., LTD., Shanghai high and new technology industrialization key project cooperation		
38	Ultrasonic spectrum Nano particles size representation and online measuring device research	ZHENG Gang	Shanghai science and technology commission, nano special	2008 - 2010	20
39	Research and the application in biomedical of Terahertz wave and Raman scattering	DOU Xiaoming	Shanghai science and technology commission local colleges and universities ability construction project	2011 - 2013	100
40	Design and preparation of efficient quantum dots LED applied in the Aircraft cockpit lighting system	XU Jian	New century talents plan	2011 - 2013	25
41	Basic research of distributed optical fiber disturbance and positioning sensor network based on wide spectrum dynamic Interference effect	ZHUANG Songlin	Fudan University 973 plan cooperation project	2010 - 2011	60
42	Research and development of high resolution spectral components and accept part-CCD detector	ZHUANG Songlin	Spectral instrument Co., LTD, National science and technology support plan	2007 - 2009	455
43	Optical properties and application Research of sub wavelength artificial microstructure device	CHEN Jiabi	Tsinghua university 973 subproject cooperation	2007 - 2011	60
44	Research of GaAs Dynamic conductance spectrum characteristics using time-domain terahertz spectroscopy method	ZHU Yiming	Ministry of education science and technology development center, Ministry of education	2009 - 2011	3.6



			doctoral fund and new teacher fund subject		
45	CCD optical imaging sensor optical alignment system modeling and stray light analysis	YANG Bo	Beijing institute of control engineering, military project	2010	20
46	Nano scale honed wavelength structural material imaging and diffraction characteristic platform construction	ZHUANG Songlin	Shanghai science and technology commission , innovation action plan project	2007 - 2009	50
47	Spatial light intensity distribution test methods research and standard setting of LED devices	ZHANG Dawei	Shanghai semiconductor lighting engineering technology center project	2010 - 2011	30
48	ZAO transparent conducting film development used for solar cell	HUANG Yuan-shen	Baoshan district science and technology cooperation projects, Guangchi technology (Shanghai) co., LTD	2009 - 2010	8
49	Optical coherence tomography imaging system design	JIA Hongzhi	Wuxi weiao technology co., LTD	2010 -2011	3.26
50	Projector lens test	JIA Hongzhi	Shenzhen graduate school of Tsinghua University	2010	2
51	Development of dual-frequency reflective film	ZHANG Rongfu	Henan Xinxing optics co., LTD	2010	3.445
52	Research and development of LED free surface street lamps	ZHANG Dawei	Suzhou Dingwang technology co., LTD	2010	13
53	New type of optical fiber sensing instrument optical device testing system research	ZHANG Xuedian	Fudan university fiber research center	2010	20
54	Development of optical fiber confocal microscopic imaging technology	ZHANG Xuedian	Fudan university fiber research center	2010	20
55	Laser display	ZHUANG	Shanghai Sanxin	2010 - 2013	400



	industrialization key technology research-micro laser optical engine research	Songlin	technology development co., LTD		
56	Rich mercury liquid phase epitaxial growth furnace automatic control system	JIA Hongzhi	Shanghai chemical industry research institute	2011	19.4
57	New laser frequency modulation polariscope	JIA Hongzhi	Jiangsu Zhonghao pharmaceutical co., LTD.	2011 - 2012	25
58	Optical fiber semiconductor TV temperature sensor probe coating	LIANG Binming	Shanghai Huawei optical fiber sensing technology co., LTD	2011	31
59	Research and development of automatic exposure machine optical system	YANG Bo	Shanghai Feiwei automation system co., LTD	2011 - 2013	50
60	Laser instrument digital automatic precision measurement system development used for engineering	NI Zhengji	Changzhou Huadakejie photoelectric instrument co., LTD	2008 - 2009	7
61	Agreement of establishing Yiwu corporative office	NI Zhengji	Yiwu science and technology bureau	2010	15
62	Development of Longmen double linear motor high speed feed drive equipment	NI Zhengji	Shanghai institute of technology transfer of technology co., LTD	2009 - 2018	500
63	University of Shanghai for science and technology image optical technical institute –Xianshi electronic joint laboratory setting up agreement	CHENG Shuyi	Shanghai Xianshi electronic technology co., LTD	2011 - 2012	10
64	Development of dual-beam laser correlation alarm	ZHANG Xuedian	Shanghai Jinqing electronics co., LTD.	2011	25
65	Research of negative differential conductivity characteristics of high frequency band in the GaAs under high electric	ZHU Yiming	National natural science funds	2012 - 2015	74



	field using time-domain Terahertz spectrum method				
66	Chirp control research of UV precision spectrum based on cycle magnitude femtosecond laser	PENG Yan	National natural science funds	2012 - 2014	25
67	Related theory and experimental research of double liquid zoom lens adjustable artificial crystal	PENG Runling	National natural science funds	2012 - 2014	25
68	Polarization differences much focus far field microscopic imaging method and key technology research of nanometer resolution	GUO Hanming	National natural science funds	2012 - 2015	60
69	Anomalous Doppler effect experiment and mechanism research in optical Frequency band Negative refraction materials	CHEN Jiabi	National natural science funds	2012 - 2015	73
70	Related theoretical and experimental research of low pressure double liquid zoom lens and its application in artificial crystal	PENG Runling	Shanghai municipal education commission, scientific research innovation general projects (science)	2012 - 2014	8