Dr.Anbuselvi .D

anbuselvi@tjohngroup.com

I am Anbuselvi D, Currently working as an Assistant Professor in the Department of Physics in T.John Institute of Technology. I did my B.Sc in Physics and from Arignar Anna Arts and science College, Villupuram. I have completed M.Sc (University Rank Holder) in Physics Arcot Sri Mahalakshmi Womens College, Vellore. I have Completed M.Phil and Ph.D in Loyola College, Chennai. I have 8 years of teaching experience. My principal domain is Nano material and Crystal Growth. I am passionate about teaching and want to share my skills with learners in order to help them have a great future.

Book Publication

Engineering Physics Laboratory Manual, ISBN 978-93-5786-296-7, JBR TRI SEA PUBLISHER ,2023

Book Chapter Publication

1. A Review of Artificial Emotional Intelligence for Human-Computer Interactions: Applications and Challenges, N. Suthanthira Vanitha, B. Niranjana Devi, A. Karthikeyan, K. Radhika, D. Anbuselvi, S. Grace Infantiya , Source Title: Harnessing Artificial Emotional Intelligence for Improved Human-Computer Interactions, 2024. DOI: 10.4018/979-8-3693-2794-4.ch003.
2. Economic Impacts on Renewable Energy Storage System Solar, Wind, and Hydro Power: A Review, ISBN13: 9798369365328,DOI: 10.4018/979-8-3693-6532-8.ch005, 2024
3. Smart Devices: A Review of Opportunities, Applications, and Challenges in Smart Industries, ISBN13: 9798369374474,DOI: 10.4018/979-8-3693-7447-4, 2025

PUBLICATIONS

- Dr.Anbuselvi D , Organometallic dichloro bis l-Valine Zinc(II) nonlinear optical crystal growth, nucleation investigations and characterization (DCBVZ), J Mater Sci: Mater Electron, Springer, 35:1030,2024
- Dr.Anbuselvi D ,Enhancing Anticorrosive Property Of Mild Steel Coated By Synthesized Eugenol-Based Benzoxazine With 3-Acetyl Phenyl Side Chain And Copolymerizing With Urethane , Rasayan Journal Of Chemistry, Vol. 17 No. 4,October - December 2024, 1957-1966

- A Muthuraja, D Bharath, G Murugesan, **D Anbuselvi**, S Kalainathan, Nonlinear optical studies on bioperine crystals grown by vertical Bridgman technique for photonic applications, Optics & Laser Technology, 149, 2022/5/1
- D. Anbuselvi* , D. Bharath, V. Joseph, and R. Josephine Usha, Organometallic dichloro bis l-Valine Zinc(II) nonlinear optical crystal growth, nucleation investigations and

characterization (DCBVZ), https://doi.org/10.1007/s10854-024-12725-y , 2024 35:1030, *J Mater Sci: Mater Electron*

- Josephine Usha R, Mary Anjalin F, Baby suganthi A.R, **Anbuselvi D,** Hardness , Nonlinear optical and atomic microscopic analysis of organomaetallic single crystal ATMCNonlinear Optics, Quantum Optics: Concepts in Modern Optics . 2022, Vol. 55
- Josephine Usha R, Mary Anjalin F, Baby suganthi A.R, **Anbuselvi D,** Hardness, Nonlinear and atomic force microscopy analysis of organometallicsingle crystal-Tri AllythioureaMercury chloride, Nonlinear optic and quantum optic, 2021

- Josephine Usha R, Mary Anjalin F, Baby suganthi A.R, **Anbuselvi D,** The growth and characterization techniques of organometallic nonlinearoptical crystal – Manganese mercury thiocyanate – Bis (N –methylformamide),Materials Today: Proceedings, Science direct, June 2020**(Impact factor 0.576)**

- D. Bharath, **D. Anbuselvi**, S. Kalainathan, Z-scan Studies on organic crystals (E)-1-(2-Chlorobenzylidene) cyclododecane-1-one for photonic applicationsne-Materials Today:Proceedings,Sciencedirect July-2019 (**Impact Factor-1.0)**

- D. Bharath, S. Kalainathan, **D. Anbuselvi**, Studies on linear and nonlinear optical propertiesof 4- *N,N*-dimethylamino-4′-*N*′-methyl-stilbazolium 2,4,6-trimethylbenzenesulfonate crystal- Journal of Materials Science: Materials in Electronics-June-2018 (**Impact Factor-2.324**)

- D. Bharath, S. Kalainathan, **D. Anbuselvi** Studies on thermal nonlinear optical effects oncyclododecanone crystals for IR optical switching application-,Journal of Materials Science: Materials in Electronics-October-2018 (**Impact Factor-2.324**)

- D. Arthi , **D. Anbuselvi**, D. Jayaraman, J. Arul Martin Mani, V. Joseph ,Nucleation, growth and characterization of semiorganic nonlinear optical crystal sodium acetate doped L-tyrosine,SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy, Volume 136, 168–174 2015

- **D. Anbuselvi** , D. Jayaraman , J. Arul Martin Mani, V.Joseph, Growth and optical, thermal, mechanical and surface morphology studies of semiorganic nonlinear optical material: Dichlorobis (L-proline) zinc (II) crystal, , Spectrochemicaacta Part A: Molecular and Biomolecular Spectroscopy,207, 405-414,2014 .

- S.Suguna,**D.Anbuselvi**, D.Jayaraman, K.S.Nagaraja,B.Jeyaraj , Synthesis, Growth, structural and optical studies of organic nonlinear optical material- Piperazine-1,4-diium bis 2,4,6-trinitrophenolate., SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy, , 132:330-338, 2014.

- J. Elberin Mary Therasa, **D. Anbuselvi,** D. JayaramanV.Joseph, Internation journal of Chem Tech Research, Vol.6 No.3, 2014.

- D. Arthi, **D. Anbuselvi** , D. Kalaivani , D. Jayaraman , V. Joseph, Nucleation, Growth and Characterization of L-Tyrosine Sodium Nitrate Single Crystal International Journal of ChemTech Research, Vol.6, No.3, pp 1544-1547, May-June 2014

- J. Arul Martin Mani , V. Joseph , **D. Anbuselvi** , P. Sagayaraj High-Quality Crystal Growth and Characterization of Organic Nonlinear Optical Crystal Dast , , International Journal of ChemTech Research, Vol.6, No.3, pp 1582-1584, May-June 2014.

- **D. Anbuselvi**, J. Elberin Mary Theras , D. Jayaraman, V. Joseph, Nucleation kinetics, growth and analysis of structural,optical, dielectric and mechanical properties of nonlinear optical material: L-proline manganese chloride, Physica B 423 (2013) 38–44

- **D.Anbuselvi,** R. Josephine Usha, D. Jayaraman , V.Joseph, Surface morphology, Micro hardness, optical and conductivity studies of nonlinear optical material L-Proline cadmium chloride (LPCC), International journal of advance material science, 2013.

- **D. Anbuselvi**, D. Jayaraman, V.Joseph, Synthesis, growth and characterisation of nonlinear optical material L-prolinezinc chloride single crystal, , Archives of Physics Research, 2013, 4 (1):35-38.

- S. Radhakrishnan, D. Jayaraman and **D. Anbuselvi**,Studies on Linear and Nonlinear Optical Properties of Vanillin Internation journal of Chem Tech Research, Vol.5, 2013.

SYMPOSIUM AND CONFERENCES ATTENDED

S.NO .INTERNATIONAL / NATIONAL CONFERENCE PARTICIPATED/ PRESENTED

Three days workshop on Engineering materials designand simulations from 15.02.2023-17.02.2023,NITTTR, Chandighar

1. International Webinar On Chemical Science For Sustainability - Iwcs 2022, Gonzaga College Of Arts And Science For Women, Krishnagiri, 19 October 2022.
2. *One Day International Webinar on Advanced Functional Materials"*held on 28th September 2022 organized by PG & Research Department of Physics, Gonzaga College of Arts and Science for Women, Krishnagiri, Tamil Nadu, India**.**
3. International Webinar on Indegenous materials for Energy storage applications,Bharath institute of Engineering Technology, Hyderabad,03.09.22
4. Indo-Norwegian International Online Conference on FARAON-2022 organized by Institute for Energy Technology (IFE), University of Oslo (UiO), Norway and Madurai Kamaraj University (MKU) India.02-04 ,Feb2022
5. One day National level webinar on "CHEMISTRY OF MATERIALS" presented by Dr.K.Jayamoorthy , Research Coordinator for science, Department of chemistry , St.Joseph's College of Engineering ,Chennai 2021
6. Workshop on "Beauty of Quantim Mechanics in Real Life",Department of Physics, University of Calicut,21-25june 2021
7. D.Anbuselvi, V.Joseph, Nucleation studies and growth of organometallic nonlinear

optical crystal Dichlorobis L Valine Zinc(II)2nd Intenational Symposium on "Modeling crystal growth processes and devices , SSN, 5-8JULY 2021

8. Webinar on Micro & Nanotechnology And Its Applications" G.T.N. Arts College (Autonomous), Dindigul, 14.05.2020
9. Webinar on International Level COVID-19 Pandemic Webinar On "Functional Novel Materials For Electrochemical Sensor And Energy Storagedevice, Thiagarajar College, Madurai And MING CHI University. TAIWAN, 15.05.2020
10. Webinar on International Webinar On "Plant-Derived Smoke Compound As Bio-Stimulants And Their Application In Crops, KLE Society's Science & Commerce College
Kalamboli, Navi Mumbai, India, 09.05.2020
11. Webinar On Awarness Of Government Examination, KIT Institute Of Technology, Coimbatore, 21.05.2020
12. Webinar on How Generate E-Certificate Using Google Slides, NRR Creative Works , Andra Pradesh, 22.05.2020
13. National Webinar on Nonlinear optical behavior of Nanomaterials, Department of Physics, Lady Doak College, Madurai, 28.05.2020
14. Five Days Hands On Workshop On "Patent Searching, Drafting And Filing"
(Online Mode), Panimalar Institute Of Technology, Chennai, 29-05-2020 To 02-06-2020
15. Webinar On "Recent Advancements In Bio & Nanomaterials, Vivekanandha College Of Arts And Sciences For Women (Autonomous), Tiruchengode,, 30.5.2020
16. WebinarLeadership talk, MHRD's Innovation cell, Goverment of India, 06.06.2020
17. WebinarIndias first leadership talk, MHRD's Innovation cell, Goverment of India, 20.06.2020
18. webinar "Thermodynamics : A Conservative Partner of Our Life & Z-Scan Measurements for Nonlinear Optical Materials", PG & Research Department of Physics, Adhiyaman Arts & Science College For Women, Krishnagiri(Dt)-635207, 16.06.2020
19. Webinar on Laser and Nanooptics, NITT-OSA and NITT-SPIE Student Chapters, Department of Physics, National Institute of Technology, Tiruchirappalli – 620 015, 25.08.2020
20. D.Anbuselvi, V.Joseph, International Conference on Advanced Nano materials, Chettinad College of Engineering and technology, 12th and 13 th December 2019
21. Workshop on quantum computing, Department of Physics, Pondicherry University, Pondicherry, 2017
22. **D.Anbuselvi**, V.Joseph, D. Jayaraman, "Sythesis and crystal geowth of Nonlinear optical material-L-Proline zinc chloride, Nation level seminar in recent trends in physics, Sri Akilandeswariwomens college, Cheyyar, 2014
23. **D. Anbuselvi**, Elberin Mary Theras, D. Jayaraman, V. Joseph, Nucleation kinetics, growth and characterization of semiorganic nonlinear optical material L-Proline manganese chloride (LPMC), Seventeenth National Seminar on Crystal Growth (XVII-NSCG -2013) , January 9 - 11, 2013, Anna University, Chennai.

24. Elberin Mary Theras, **D. Anbuselvi,** D. Jayaraman, V. Joseph, Studies of Nucleation

Kinetics, growth and characterization of organic non-linear optical materials, Seventeenth National Seminar on Crystal Growth (XVII-NSCG -2013) , January 9 - 11, 2013, Anna University, Chennai.

25. Studies on growth, optical and mechanical properties of semiorganic nonlinear optical crystal - L-valine zinc chloride (LVZC), **D. Anbuselvi**, D. Jayaraman, V. Joseph, fourth International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2013) which will be held at Bishop Moore College, Mavelikara, Kerala, during August 6-9, 2013.

26. **D. Anbuselvi**, D. Jayaraman , V. Joseph **, "**Synthesis, growth, optical, dielectric studies of a novel semiorganic nonlinear optical material - L- proline cadmium chloride (LPCC)", National seminar on new materials research and nanotechnology -NSNMRN 2012, September 12-14, 2012, Government Arts College, Ooty, Tamil Nadu.

27. **D. Anbuselvi** , D. Jayaraman , V. Joseph , "Synthesis, growth and characterization of nonlinear optical material L-Proline zinc chloride single crystal", International Conference on Research in Condensed Matter Physics (ICCMP – 2012), 1-3 October 2012, University of Madras, Chennai, India.

28. **D. Anbuselvi**, D. Jayaraman , V. Joseph, "Synthesis, growth, spectral, SEM and nonlinear optical material L-Proline zinc chloride single crystal", National conference on advances in science and technology - 2012, October 31, 2012, Saveetha School of Engineering and Saveetha University, Thandalam, Chennai

29. **D. Anbuselvi**, R. Josephine Usha, D. Jayaraman , V. Joseph, "Surface morphology, microhardness, optical and conductivity studies of nonlinear optical material L-Proline cadmium chloride (LPCC)", National Conference on Nanomaterials – 2012, December 3 - 4, 2012, Karunya University, Coimbatore.

30. R. Josephine Usha, **D. Anbuselvi**, J. Arul Martin Mani, V. Joseph and P, Sagayaraj, "Dielectric studies of Bimetallic Thiocyanate Ligand Based Single Crystal of $CdHg(SCN)_4$", International conference on Recent Trend in Advanced Materials (ICRAM), February 20 - 22, 2012, VIT University, Vellore.
R. Josephine Usha, **D. Anbuselvi**, V. Joseph and P, Sagayaraj, "Growth and characterization of organometallic nonlinear optical crystal- Manganese mercury thiocyante- bis(N-Methylformamide) MMTN", National seminar on Advances Material science, 23 - 24, 2012, ManonmaniamSundaranar University, Tirunelveli,.

31. R. Josephine Usha, **D. Anbuselvi**, J. Arul Martin Mani, V. Joseph and P, Sagayaraj, "Growth and characterization of bimetallic thiocyanate ligand based single crystal of $MnHg(SCN)_4$ (MMTC)", International conference on Advanced Materials (ICAM 2012), January, 5 - 7, 2012, Loyola College, Chennai.

ACHIEVEMENTS AND AWARDS

- **Best oral paper presentation-D.Anbuselvi**, V.Joseph, D. Jayaraman, "Sythesis and crystal geowth of Nonlinear optical material-L-Proline zinc chloride, Nation level seminar in recent trends in physics, Sri Akilandeswariwomens college, Cheyyar, 2014.
- **Best poster paper presentation- D. Anbuselvi** , D. Jayaraman , V. Joseph , "Synthesis, growth and characterization of nonlinear optical material L-Proline zinc chloride single crystal", International Conference on Research in Condensed Matter Physics (ICCMP – 2012), 1-3 October 2012, University of Madras, Chennai, India.

- **Management award** for best service in the academic year 2015-16

NPTEL Course

1. Accreditation of undergraduate Engineering Program
2. Physics of Renewable Energy

INVITED TALK TO OTHER COLLEGE/UNIVERSITY:

- Invited talk "National Level Webinar on Third Harmonic Generation of inorganic materials" Dr. MGR Educational And Research Instititute, Chennai,26th August 2021.
- Awarness Program on Renewable Energy Resoures, Muthayammal Engineering College 2021.
- Invited Talk "Seminar OnGender Sensitization and Violence Against Women and Girl Child" Muthayammal Engineering College, Rasipuram,07th Dec ,2022.

ACADEMIC EXPERIENCE

1. Worked as Head of the Department for department of physics in the academic year 2015-2016
2. Experience in framing the syllabus for Post Graduate (M.Sc., Physics), Member for Board of studies in Thiruvalluvar University,2016
3. Experience in establishing physics laboratory for post graduate
4. Worked as youth red cross and social service co-ordinator2016-17
5. Experience in working for NAAC accreditation and ISO certification, 2016
6. Research Co-ordinator in science and humanities,2019-22
7. Experience in **NAAC and NBA**
8. **C-2 coordinator in NAAC and C-8 coordinator in NBA**
9. Fine Arts coordinator 2021
10. Science Club Coordinator

SEMINAR CONDUCTED

- **"**Semiconductor Device fabrication and its application" Date of the Event: 14.11.2024
- National science day, Enabling IOT automation,28.02.2025
- Seminar on Recent Advancement in material science and technology, 28.02.2024.
- Guest Lecture on Ultrasonic and its applications, 28.03.2024.
- Seminar on Recent Innovation in modern science, 10.11.2023
- Invited Talk on Frontiner of Nanostructured materials Advancements and challenges, 14.12.2023.
- Two days Workshop on Development of materials charcterisation technique and their future prospects, 18.12.23&19.12.23
- Seminar on Magnetic Nanomaterials and Zinc Acetate,28 Jan,2022
- Workshop on Biological Applications of Organic Materials" 12.07.22
- Seminar on Nanotechnology and its applications, 10.07.21.
- Seminar on optoelectronic materials,25.01.22
- Awareness Program on Renewable energy Resources, 13.07.22
- Quiz program on Physics and Chemistry,09.07.22
- Seminar "Plasma Physics and its Applications,27.06.22
- Workshop on Quantum computer and its applications, 2022
- Seminar Boundless Physics,2022
- Two days Workshop on Nanocomposite materials for Engineering Application.2023
- Quiz Program on Physics and chemistry, Muthayammal Engineering College,2023.
- Science Story telling Competition, Muthayammal Engineering College, 2023.
- Seminar on Solar cell and its application,2023.
- Internation Talk on Lithium ion Battery and its applications,13th July, 2023
- International Talk on Astronomical Telescope in Physics, 14th July2023
- Two days workshop on Development of Materials characterization Technique and their future prospects**,** 18.12.2023-19.12.2023
- Invited Talk *"* Frontiner of Nanostructured Materials: Advancements and Challenges*"* 14.12.2023
- Seminar on "Recent Innovation in Modern science and Technology" , Science Day 10.11.2023

REVIEWER OF THE JOURNALS

- Material research innovation (Taylor & Francis)
- Physica B: Physics of Condensed Matter-**Certificate of reviewing award in year of 2017**
- Materials Today: Proceedings - **Certificate of reviewing award in year of 2020**
- Journal of Physics and Chemistry of Solids - **Certificate of reviewing award in year of 2018**

- International Journal of Multidisciplinary Research in Arts and Science and Commerce(IJMRASC) ,June 2023.

FACULTY DEVELOPMENT PROGRAM

S.NO	DATE	WEBINAR / FDP/ETC.	TITLE OF THE PROGRAMME	ORGANIZED BY
1.	24.06.2025 -28.06.205	FDP	SIX DAYS ONLINE FACULTY DEVELOPMENT PROGRAM	SRM INSTITUTE OF TECHNOLOGY
2.	07.102025-11.102025	FDP	AICTE RECOGNIZED FACULTY DEVELOPMENT PROGRAMME ON DEVELOPMENT OF EMPLOYABLE SKILLS	NITTR
3.	29.06.2025 - 30.06.2025	CONFERENCE	THIRD INTERNATIONAL CONFERENCE ON ADVANCED FOOD AND AGRICULTURAL SCIENCE AND TECHNOLOGY	CHEMICAL SCIENCE REVIEW AND LATTER,ONLINE
4.	2020-9-21 TO 2020-9-25	FDP	FDP ON "DESIGN THINKING"	MUTHAYAMMAL ENGINEERING COLLEGE(AUTONOMOUS), ATAL, AICTE.
5.	24/09/2021 TO 28/09/2021	FDP	"NOVEL MATERIALS: ADVANCES AND APPLICATION	NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR, ATAL,AICTE
6.	13.05.2020	FDP	ONE DAY FACULTY DEVELOPMENT PROGRAMME	IQAC AND PG AND RESEARCH DEPARTMENT OF CHEMSITRY, GOVERNMENT ARTS

				COLLEGE, TRICHY
7.	04-05-20 TO 08-05-20	FDP	QUANTUM AND ENERGY MATERIALS: POTENTIAL & APPLICATIONS	APPLIED SCIENCE DEPARTMENT ,NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
8.	11-05-20 TO 15-05-20	FDP	RESEARCH ORIENTED PROJECT WORK	CURRICULUM DEVELOPMENT CENTRE DEPARTMENT , NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH
9.	18.05.2020-22.05.2020	FDP	LIFE SKILLS DEVELOPMENT	EDUCATION AND EDUCATIONAL MANAGEMENT DEPARTMENT NITTTR, CHANDIGARH
10.	06.07.2020-10.07.2020	FDP	NANOELECTRONICS DEVICES AND CIRCUITS DESIGN	ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT NITTTR, CHANDIGARH
11.	27.07.2020-31.07.2020	FDP	STRATEGIC PLANNING FOR ENTREPRENEURSHIP PROMOTION	ENTREPRENEURSHIP DEVELOPMENT AND INDUSTRIAL COORDINATION DEPARTMENT NITTTR, CHANDIGARH
12.	10.08.21-12.08.21	FDP	APPLIED OPTICS AND PHOTONICS	DEPARTMENT OF PHYSICS, KUMARAGURU COLLEGE OF

				TECHNOLOGY, COIMBATORE
13.	13.01.20-1701.2020	FDP	ONE WEEK FACULTY DEVELOPMENT PROGRAMME ON "ICT TOOLS FOR TEACHING, LEARNING PROCESS AND INSTITUTUES	ELECTRONIC &ICT ACADEMY
14.	12.09.22-20.09.22	FDP	"INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON FOREMOST FRONTIERS OF MATERIAL SCIENCE*"*	DEPARTMENT OF PHYSICS, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI
15.	14.11.22-18.11.22	FDP	FACULTY DEVELOPMENT PROGRAM ON CURRENT SCENARIO IN ADVANCED MATERIAL SCIENCE AND NANOTECHNOLOGY	RAJAPALAYAM RAJU COLLEGE, RAJAPALAYAM,
16.	25.0324-01.04.24	FDP	FDP ON RECENT TRENDS OF ADVANCED FUNCTIONAL MATERIAL	VELAMMAL COLLEGE OF ENGINEERING , MADURANI
17.	30.10.23	FDP	"FDP ON BRIDGING THE GAP BETWEEN TEACHING AND LEARNING PRACTICE" HELD ON 30TH OCTOBER TO 1ST NOVEMBER, 2023.	DR.M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE

Certificate Courses

S.No	Name of Online Course (Coursera, HP Life, etc)	Title of the Course
1.	HP	Effective leadership
2.		Effective presentation
3.		"Presenting data
4.		Social media marketing
5.		Unique value proposition
6.	Coursera	The Challenges of Global Health
7.		How Things Work: An Introduction to Physics
8.		Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading
9.		Converting Challenges into Opportunities
10.		How to Write and Publish a Scientific Paper (Project-Centered Course)
11.	Elseiver, Bright talk, Dr. Rose Zhu, Associate Scientific Editor, Joule , US	Essential tips for publishing in high-impact journals ,
12.	Bright talk,Dr. Philip Earis, Editor-in-Chief, Joule, Cell Press, US	Must Know Tips for Publishing in Premium Journals
13.	MBRU Mohammad Bin Rashid University	Let's Break the Chain of COVID-19 Infection
14.	GUVI	Step into Robotic process automation
15.	NPTEL	3. Accreditation of undergraduate Engineering Program 4. Physics of Renewable Energy

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- International Journal of Multidisciplinary Research in Arts and Science and Commerce(IJMRASC) ,June 2023.

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