

SUBJECT INDEX

analysis of errors	121, 122, 128
attenuation	49, 52, 53, 54, 61, 62, 63, 64, 65, 66, 68, 69
attenuator	185, 190
automated reading	1
backscatter	61, 63, 64, 65, 68, 69, 70
<i>BER</i>	159, 160, 166, 167, 168, 169, 170, 171, 172, 173
Blynk application	151, 152, 153, 154, 156, 157
bone structure	61, 65, 69
borate glass	137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150
Cadmium Telluride (CdTe)	121, 122, 123, 124, 125, 126
cancer cell	89, 90, 91, 94, 95, 96, 98, 99
CdS	113, 114, 116, 117, 118, 119, 123,
characterization	20, 21, 23, 24, 25, 27, 28, 35, 47, 85, 86
chemical properties	20, 37
composite materials	37, 38, 44, 45
Cooling	129, 130, 131, 132, 133
Cramer-Cohen method	113, 116, 121, 122, 124
CSH	25, 30, 31, 32, 33, 34
data acquisition	9, 10, 11, 12, 13, 14, 15, 17, 18
data simulation	129
dielectric constant	89, 90, 91, 93, 94, 96, 98
dielectrophoresis force	89, 90, 96, 98
dry surface	71
ECCT	89, 90, 98, 99
electric field	89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
Electroencephalography	101, 102, 106
energy band gap	113, 114, 117
energy gap	117, 121, 122, 123, 125, 126, 127
error	113, 114, 115, 117, 118, 119, 121, 122, 124, 126, 127, 128
Faraday's Cage	101, 102, 103, 104, 106
fish dryer	175, 176
GMPE	49, 50, 51, 52, 53, 55
granular simulation	71
heating	129, 131, 132
Hexagonal	19, 21, 22
image processing	1, 2, 3, 4, 5, 6, 7, 8
lattice parameter	113, 114, 115, 116, 117, 118, 119, 121, 122, 123, 124, 126, 127
Lesion	89, 90, 91, 92, 93, 94, 95, 96, 97, 98
LIGT	1, 2, 3, 4, 5, 6, 7
mechanical properties	26, 34, 37, 38, 41, 44, 45, 46, 47, 65
Microscopy	107, 108, 112, 128
microsphere	107, 108, 109, 110, 111, 112
<i>MiMo</i>	159, 160, 162, 163, 164, 166, 167, 169, 171, 172, 173
moisturized surface	71, 73
numerical data	9, 10, 11, 12, 13, 14, 15
<i>OFDM</i>	159, 160, 161, 164, 165, 166, 167, 168, 169, 171, 172, 173
optical microscope	107, 108, 109, 111
Osteoporosis	61, 62, 63, 64, 69, 70
Palu earthquake	49, 57

pandemi	151
peak ground acceleration	49, 51, 54
photonic jet	107, 108, 110, 111, 112
physical properties	19, 20, 21, 23, 37, 44
point absorber	185, 190
porous horizontal surfaces	71
power spectral density	101, 104
pseudo-spectral acceleration	49, 51
purun tikus fiber	37, 38, 39, 40, 41, 42, 44, 45
Radiative	137, 138, 139, 140, 144, 146, 147, 149
rocket flight test	9
RPC	25, 26, 27, 34
RX320 statical test	9
security	151, 153
seed-mediated hydrothermal	19, 20, 23
sensor load cell	151
signal	101, 102, 104, 106, 123
SNR	159, 160, 166, 167, 168, 169, 170, 171, 172, 173
solar panel	175, 176, 177, 182
spectroscopic	137, 138, 139, 143, 148, 149, 150
STC	159, 160, 162
strength	9, 11, 12, 14, 15, 16, 17, 25, 26, 27, 31, 32, 33, 34, 37, 39, 40, 41, 42, 43, 44, 45, 50, 69
STTC	159, 160, 162, 163, 164, 166, 167, 172, 173
sulfur doping	19
temperature	1, 2, 3, 4, 5, 6, 7, 16, 20, 21, 25, 27, 28, 30, 32, 33, 34, 39, 77
temperature measurement	1, 2, 3
temperature sensor	129, 130, 131, 132, 133, 134, 135
terminator	185, 190
TTFields	89, 90, 99
ultrasound	61, 62, 63, 64, 65, 66, 69, 70
water content of Fish	175, 179, 182
wave energy converter	185, 190, 198
ZnO nanorod	19, 20, 21, 22, 23, 24

AUTHOR INDEX

Adhi Mahendra	159
Adnan Prasetyo Alamsyah	129
Adrian Fadhillah	129
Agnes Tiara Vinanda	113
Akhmad Safi'i	37
Akrajas Ali Umar	19
Alfi Afriliani	113
Amalia Nasurroh	49
Anang Pamungkas	175
Andri Abdurrochman	107
Ane Prasetyowati	185
Anis Munir Rukyati	121
Anton Sulaksono	89
Ari Firia	129
Ari Sulisty Rini	19
Bagus H. Jihad	9
Bagus Wicaksono	9
Bambang Sunardi	49
Chayani Sarumaha	137
Dadan Sumardani	71
Daeng Achmad Suaidi	175
Daniel Christianto	25
Dea Amelia Saputri	129
Dewi Mulyati	71
Doni Chesa Renaldi	151
Donna Rajagukguk	137
Duta Widhya Sasmojo	151
Dwi Lestariningsih	121
Ela Septianingsih	107
Endang Wijaya	61
Erfan Handoko	71
Farhan Yusuf	61
Fauzi Bakri	71
Fitri Melinda	113
Freddy Haryanto	101
Galih Restu Fardian Suwandi	101
Gianto	1
Handjoko Permana	71
Hendri Subakti	49
Henny Wiyanto	25
Heriyanto	175
Hilal Fauzi Ramadhan	129
Indriyati Rahmi Setyani	113
Intan F. Amatillah	107
Irmansyah	113, 121, 129
Irwan Setiawan	1
Irzaman	113, 121, 129
Julian Akmal	107
Juniastel Rajagukguk	137
Kamelia Fikriah	113
Koharudin	121
Kurdianto	9
L. Safriani	107
Lies Banowati	37
Lulu Lutfiah	113
Mawaddatur Rahmah	37

Meutia Awani	113
Muhammad Arif	89
Muhammad Fikri Fakhrurozi	121
Muhammad Fikri Hayqal Hiola	49
Nada Huwaidah	113
Ni Larasati Kartika Sari	71
Ninis Hadi Haryanti	37
Noor Suryaningsih	159, 185
Pintor Simamora	137
Rappel Situmorang	137
Retno Dwi Kartika Sari	129
Riandini	61
Rindang Wahyu Puspitasari	175
Rizki Nurhikmah	129
Sarah Aribah Miftahulfallah	129
Sarah Nabilah	121
Septelia Inawati Wanandi	89
Setiadi	9, 18
Sinta Puspita Apriliani	121
Siti Nurul Khotimah	101
Stefiana Sondary Az Zahrah	121
Sulur	175
Suprijadi	101
Suryajaya	37, 46
Susi Susilawati	121
Sutrisno	175
Talitha Alya Syaharani	113
Tora Oktaviana	61
Umiatin	61, 63, 70
Vera Firmansyah	1
Warsito Purwo Taruno	89
Widodo Kushartomo	25
Widya Rahma	129
Widyaningrum Indrasari	137
Wisnu Broto	151, 159, 185
Witri Desmulyan	121
Yanuar Hamzah	19
Yolanda Rati	19

AUTHOR GUIDELINES ([DOWNLOAD HERE](#))

SPEKTRA: Jurnal Fisika dan Aplikasinya is a continuously published three times a year scientific journal which is using blind review by system. SPEKTRA accepts original article is dedicated to all physics practitioners includes: Instrumentation and Computational Physics; Material Physics; Medical Physics and Biophysics; Astrophysics; Theoretical Physics; Particle and Nuclear Physics; Environment Physics; Renewable Energy; and other fields related to the application of physics.

The article consists of:

- Title: specific and effective, no more than 30 words, written by capital letters in all words.
- Author's identity: Author's full names (without degree), institutional address (including name institution, address, postal code, city, and country), and author's email must write fully and clearly.
- Abstract: it is written in a paragraph which consists of 250 words maximum. Abstract is written sequentially from background of the study, objective of the study, methods, results, and conclusion.
- The keywords must be included on the same page as abstract. It consists of 3-5 words which are chosen genuinely so that reflects the concept of article.
- Introduction: serves the purpose of leading the reader from a general subject area to a particular field of research. It establishes the context of the research being conducted by summarizing current understanding and background information about the topic, stating the purpose of the work in the form of the hypothesis, question, or research problem, briefly explaining your rationale, methodological approach, highlighting the potential outcomes your study can reveal, and describing the remaining structure of the paper. By introducing and reviewing key sources of prior research in that area to **show where gaps exist or where prior research has been inadequate** in addressing the research problem.
- Figure Caption. Example writing "FIGURE 1," which is the label must be written in capital and bold Times New Roman size 9. If the image has a lot of parts, you can use the label (a), (b), and so on.
- Table Caption. Example writing "TABLE 1," is the label description table bold, and capital. Description flat table placed above the middle of the table.
- Equations should be placed in the middle with his right equation number (flush right). Here are tips on writing an equation in accordance with the template SPEKTRA:
 - Copy, paste, and edit examples of Equation (1) in templates (very are suggested).
 - Manually enter the equation, via the **MathType**
 - Edit the number of equations.
 - Before you manually enter the equation or edit the number of equations please install the MathType. Please download how to install MathType by access <http://journal.unj.ac.id/unj/index.php/spektra/equation>
- Methods: it discusses the research design, data collection, data sources such as the population and sample, and data analysis. It is written with sentences in paragraphs, not in sequences using points.
- Results: it contains the data and information that has been collected. The finding systematically must be supported by charts, tables, figures or informative illustrations.
- Discussion: it shows a further explanation about the finding. Compare the finding with another research's finding and do not repeat what has been written in finding.
- Conclusion: it should clearly state the result of correlated objective (and may also possible with future direction).
- Reference cited according to [IEEE System](#) numbered in accordance with the order of references in the research and in accordance with the sequence number in the bibliography. The number is written before "." dot. In writing the citations and references, authors are recommended to use reference management software, such as Mendeley or Zotero. The reference must include **80 % primary sources in the past 10 years**.
- References: it must be written according to [IEEE System](#), numbered in accordance with the order of references in the research and in accordance with the sequence number in the bibliography.
This is an example to write the reference:
 - [1] J. K. Author, "Title of chapter in the book," in Title of His Published Book, xth ed. City of Publisher, Country if not USA: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx-xxx.
 - [2] J. K. Author, "Title of report," Abbrev. Name of Co., City of Co., Abbrev. State, Rep. xxx, year.
 - [3] Name of Manual/Handbook, x ed., Abbrev. Name of Co., City of Co., Abbrev. State, year, pp. xx-xx.
 - [4] J. K. Author, "Title of paper," in Unabbreviated Name of Conf., City of Conf., Abbrev. State (if given), year, pp. xxx-xxx.

- Some tips to do a final check of your article before it is submitted to SPEKTRA:
 1. Write down your paper using SPEKTRA Manuscript Template.
 2. Make sure you save as Microsoft Word 1997-2003. If you have size problem, you can save as “.docx”.
 3. Create PDF files from your article.

Manuscript Template

Manuscript Template of SPEKTRA available in two version. For authors, please download at the following link.

- 1) [Manuscript Template \(English version\)](#)
- 2) [Manuscript Template \(Bahasa Indonesia version\)](#)

IEEE Style Referencing

SPEKTRA using IEEE style of writing citations and bibliography. Instructions of writing citations and bibliography please download at the following link [IEEE Style Referencing](#)

Manuscript Assessment Process

Any accepted manuscript will be reviewed by at least two reviewers, plus editorial comments. The author is required to revised the manuscript according to reviewer comments and editors. Editor team will process it for later publication. For peer review process diagrams please go to [Peer Review Process](#) page.

Submission Technical Summary

- 1) SPEKTRA (manuscript template) format ([Manuscript Template of SPEKTRA](#)).
- 2) Format of SPEKTRA references list ([Refrence Format SPEKTRA](#)).
- 3) Fill the online form of:
 - (i) [Authorship Agreement](#)
 - (ii) [Copyright Statement](#)
 - (iii) [Ethics Statement](#)
- 4) Selected paper will be published in SPEKTRA issue: April | August | December (the author should completed all review and revision process).
- 5) Submit papers and revised papers submitted through the journal submission system, tutorials and instructions can be seen on the next points below.
- 6) Registration tutorial at SPEKTRA ([How to Register in SPEKTRA](#)).
- 7) Tutorial: submit in SPEKTRA ([How to Submit in SPEKTRA](#)).
- 8) Tutorial: tutorial read the review results and upload the revised file ([Review Result and Revised File](#)).
- 9) Instructions for writing mathematical equations in New Office 365 ([How to Writing Equation Using MathType](#))
- 10) Confirm submitted/revision paper to spektra@unj.ac.id.
- 11) Any accepted manuscript will be reviewed by at least two reviewers, plus editorial comments. To making a quickly review and publishing process, please following the focus and scope of Spektra. The article will be rejected if the scope does not match with SPEKTRA scope.

SPEKTRA is published in collaboration:



**Program Studi Fisika
Universitas Negeri Jakarta**



**LPPM
Universitas Negeri Jakarta**



**PSI:
Physical Society of Indonesia**



**GCD:
Green Circle Digital**

