

CURRICULUM VITAE OF Dr. BIJOY KUMAR KUANR

Permanent Institutional Address

Associate Professor
Zakir Husain Delhi College (University of Delhi)
Department of Electronics
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Total Publications:	86	
Publications with Prof. Grünberg:	18	
International Journals:	53	
International Conferences:		33
Invited Talk:	07	
Journal of Applied Physics:		18
Applied Physics Letters:		5
IEEE Transactions in Magnetic:		9
Journal of Magnetism & Magnetic Materials:		7
Physical Review B:		2
Physics Letters A:		1
Journal of Vacuum Science & Technology (A):		1
Journal of Vacuum Science & Technology (B):		2
Journal of Physics D:		3
Physics Status Solid:		2
Journal of Crystal Growth & Preparation:		2

Honours and Awards received

- (I) Co-researcher of **Nobel Laureate Professor Peter Grünberg - Physics 2007**
- (II) Name listed in the *Who's Who in America - 66th Edition, 2011*
- (III) Name listed in the - *Who's Who in Science and Engineering - 10th Edition, 2007*
- (IV) DAAD-Fellow UGC sponsored, Oct.1994 to Sept.1996, Post-Doc. at University of Koeln, Germany,
- (V) DAAD-Fellow (Germany), Oct.1999 to Nov.1999, Ruhr-University of Bochum, Germany
- (VI) SERC Fellow (DST, India) 1998-99
- (VII) C.S.I.R., India, Senior Research Fellow, 1988-89 (Doctoral work)
- (VIII) M.O.D., India, Junior Research Fellow, 1986-88 (Pre-doctoral)
- (IX) Organizers of 31st MMM Conference, Baltimore, USA, Nov.1986
- (X) College Merit Scholarship (during B.Sc.)

Educational Qualifications

Degree	Subjects	Year of Passing	University
Ph.D (Doctor of Philosophy)	Electronic Science	May, 1993	Delhi University , India
Thesis on : 'High power Microwave, & Magnetic studies of Substituted Lithium Ferrites & Gd-YIG'			
Supervising Professor : Professor G. P. Srivastava			
M. Phil (Physics)	1985	1 st Div	Delhi University , India
M. Sc. (Physics)	1983	1 st Div	Delhi University , India

Research Positions

2001 - 2002 Physics Department, University of Colorado at Colorado Springs

Host : Prof. Z. Celinski & Prof. R. E. Camley

Topic : "Growth (MBE, Sputtering, etc.) & Characterization of **Magnetic-Nano-Structures** (ultra-thin films, nano-wires, nano-dots, anti-dots) & Fabrication of **Microwave Monolithic-Nano-Devices** in microstrip geometry"

[Working at Physics Dept. UCCS 2-months during summer every year since 2002.](#)

2000 - 2001 Research Scientist, (IFF), Research Center Jülich, JUELICH, Germany

Host : Professor Dr. Peter Grünberg - Nobel Laureate - Physics 2007

Topic : "Ultra-thin Magnetic Multilayer Structures & GMR-Sensor"

1994 - 1996 Post-Doctoral Research University of Koeln, KOELN, Germany

Host : Professor Dr. Güther Nimtz **Collaborating Professor** : Professor Dr. Peter Grünberg

Topic : "Network Analyzer based FMR on Ultra-thin Magnetic Multilayers"

Skills

- (1) Deposition of thin films, multilayer & Nanorods using:
- Molecular Beam Epitaxy (MBE)
 - E-Beam Evaporator
 - Sputtering
 - Electro-deposition
- (2) Characterization of Magnetic properties using:
- Classical FMR (10, 24, 35, 45 & 55 GHz) Systems
 - FMR using Vector Network Analyzer (0.1 – 110 GHz)
 - Brillouin Light Scattering (Sandercock model Tandem Fabry-Perot Interferometer)
 - Magnetometers with
 - o DC MOKE
 - o VSM
 - o SQUID
 - Magneto-transport using Van-Der-Paw Technique
 - Microstructural Analysis using
 - o SEM, TEM
 - o XRD
- (3) Clean room equipments for microwave device development like:
- Photolithography
 - Ion etcher
 - Plasma etcher
- (4) Microwave Device characterization using Vector Network Analyzer & Microprobe station
- (5) Programming with FORTRAN, C++, MAPLE, MATLAB, etc. I taught FORTRAN, MAPLE, MATLAB, etc. to undergrad & graduate students more than 15 years.

SUMMARY OF RESEARCH ACTIVITIES

(I) Physics Department University of Colorado at Colorado Springs, USA

(1) Microwave Monolithic Tunable Devices (MMIC): Design & Fabrication of Fe, FeCo & NiFe based (Thin film, Multi-layers & Nano-Wires, nano-dots, Anti-dots, nano-particles) ***tunable Band-Stop & Band-Pass filter, Isolator and Phase shifters*** in Co-Planer waveguide and micro-strip geometry. Characterization of these devices in frequency domain by using Network Analyzer, Micro-probe station. Design, fabrication and characterization of High Power Microwave Monolithic devices like Signal-to-Noise Enhancer, Power Limiter, delay line etc.

(2) Study of Interlayer Exchange Coupling, GMR, Magneto-crystalline anisotropy of Fe/Al/Fe, Fe/Si/Fe, Fe/Cr/Fe, Fe/Au/Fe systems.

(3) GILBERT DAMPING in nanostructures by: (i) FMR, (ii) Network Analyzer - FMR & (iii) BLS

(4) Study of Exchange-bias systems (NiO/NiFe, IrMn/Fe/IrMn, IrMn/FeCo/IrMn) & application to Monolithic Microwave Devices.

(II) At Prof. Gruenberg's lab. Juelich, IFF-FZ Juelich, Germany;

Development of ***GMR-Sensors*** using various magnetic system fabricated by using Molecular Beam Epitaxy system. Study of Interlayer Exchange Coupling, Gilbert damping & GMR of Fe/Cr/Fe, Fe/Al/Fe & Fe/Si/Fe system by (i) BLS (ii) Network Analyzer FMR, (iii) & MOKE.

Teaching Experience: Teaching experience at Department of Physics & Electronics, ZH College (Delhi University), India. Taught B.Sc. (Hons.) Electronics & Physics Students 1989 onward.

Basic : basic Rs. 50,910 + Rs.9000/- (Grade Pay)

REFERENCES :

1) Professor Z. Celinski,

Department of Physics, University of Colorado at Colorado Springs, Colorado Springs, 1420-Austin Bluffs Pkwy, CO 80918, USA, Email: zcelinsk@uccs.edu

2) Professor Dr. Peter Grünberg,

IFF, Forschungszentrum Jülich, Juelich, GERMANY; Email : p.gruenberg@fz-juelich.de

PERSONAL DETAILS :

Date of Birth: 10th April, 1962;

Citizenship: Indian;

Place of Birth: Orissa, India

LIST OF PUBLICATIONS (INTERNATIONAL JOURNALS)
MAGNETIC NANO-STRUCTURES; MICROWAVE NANO-DEVICES

2011-2012

1. Iron based microstrip Phase Shifter; Optimization of Phase shift
Bijoy K. Kuanr, T. J. Fal, Z. Celinski & R. E. Camley
Journal of Applied Physics, **111** (7), (2012) pp. 07A508
2. High frequency study of core-shell and uncoated Fe₃O₄ nanoparticles
Bijoy K. Kuanr, Alka V Kuanr, V. Veerakumar, Sanjay R. Mishra, R. Camley and Z. Celinski.
Journal of Applied Physics, **111** (7), (2012), pp.07B542
3. Permalloy (NiFe) nanometer square-antidot arrays: Dynamic modes and use as a monolithic microwave band-pass filter
Bijoy K. Kuanr, V. Veerakumar, L. Malkinski, Minghui Yu, R. Camley and Z. Celinski.
Journal of Applied Physics, (2012) (communicated)
4. Iron based Microwave Non-linear Phase Shifter; A Planar microstrip device
Bijoy K. Kuanr, V. Veerakumar, R.E. Camley & Z, Celinski
Journal of Applied Physics (2012) (under process).

2010

5. Nonlinear ferromagnetic resonance in Permalloy films: A non-monotonic power-dependent frequency shift.
Y. Khivnitsev, **Bijoy K. Kuanr**, T. J. Fal, M. Haftel, R. E. Camley, Z. Celinski, & D. L. Mills
Physical Review B **81**, (2010), pp. 054436.

2009

6. Non-reciprocal Microwave Devices Based on Magnetic Nanowires
Bijoy K. Kuanr, V. Veerakumar, Ryan L. Marson, Sanjay R. Mishra, R. E. Camley and Z. Celinski
Applied Physics Letters, **Vol. 94**, (2009), pp. 202505.
7. Size dependent Ferrites nano-particles; Application to Microwave Devices
Bijoy K. Kuanr, Kiran Lingam, Sanjay K. Mishra, V. Veerakumar, R. E. Camley, Z. Celinski
J. Appl. Physics, **Vol. 105**, (2009), pp. 07B522
8. Giga Hertz (GHz) Frequency Noise Suppression Using Nickel Nanorod Arrays & Permalloy films
Bijoy K. Kuanr, Ryan Marson, Sanjay K. Mishra, R. E. Camley, Z. J. Celinski
J. Appl. Physics, **Vol. 105**, (2009), pp. 07A520
9. High-frequency signal processing using magnetic layered structures.
R.E. Camley, Z. Celinski, T. Fal, A.V. Glushchenko, A.J. Hutchison, Y. Khivintsev, **Bijoy K. Kuanr**, I.R. Harward, V. Veerakumar, V.V. Zagorodni
J. of Magnetism and Magnetic Materials, **Vol. 321**, (2009), p. 2048-2054.
10. Effect of temperature on the ferromagnetic resonance linewidth (ΔH) of epitaxial Fe thin films
Bijoy K. Kuanr, V. Veerakumar, R. E. Camley, Z. Celinski
IEEE Transactions on Magnetism, **Vol. 45**, (2009) pp. 4015.
11. Microwave Magnetic properties of NiFe Nano-strips
Bijoy K. Kuanr, V. Veerakumar, A. V. Kuanr, T. Fal, L. M. Malkinski, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, **Vol. 45**, (2009) pp.3550.
12. Microstrip Tunable Band-pass filter using Ferrites (nano-particles) Coupled Lines
Bijoy K. Kuanr, A. V. Kuanr, V. Veerakumar, K. Lingam, S. R. Mishra, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, **Vol. 45**, (2009) pp.4226.
13. Nickel Nano-wires filled Alumina Templates for Microwave Electronics
Bijoy K. Kuanr, V. Veerakumar, A. V. Kuanr, R. Marson, S. R. Mishra, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, **Vol. 45**, (2009) pp.4052.

2008

14. Determination of Exchange and Rotational Anisotropy in IrMn/Fe(t)/IrMn exchange-coupled structures using dynamic and static techniques; Application to microwave-devices.
Bijoy K. Kuanr, Stefan Maat, S. Chandrashekariah, V. Veerakumar, R. Camley and Z. Celinski.
J. Appl. Physics, **Vol. 103**(7), (2008), p. 07C107.
15. High-frequency characterization of Permalloy (Py=Ni₈₁Fe₁₉) nano-sized stripes using Network Analyzer Ferromagnetic Resonance (NA-FMR)
Bijoy K. Kuanr, Radek Lopusnik, Leszek Malkinski, Matt Wenger, Minghui Yu, Donald Scherer II, Zbigniew Celinski.

- J. Appl. Physics**, Vol. **103(7)**, (2008), p. 07C508.
16. Small dimensional microstrips embedded with ferromagnetic layers: Numerical simulations and experimental results.
Jonah N. Gollub, **Bijoy K. Kuanr**, Zbigniew Celinski, Robert Camley, and David R. Smith.
J. of Condensed Matter (cond-mat) on-line journal, 21 February (2008).
17. High frequency signal processing using magnetic layered structures
R.E. Camley, Z. Celinski, T. Fal, A.V. Glushchenko, A.J. Hutchison, Y. Khivintsev, **Bijoy Kuanr**,
I.R. Harward, V. Veerakumar, V.V. Zagorodnii
J. Magn. Magn. Mater., (2008) doi:10.1016/j.jmmm.2008.04.125
2007
18. Increasing Operating Frequency in Microwave Devices by using [SmCo/NiFe] Multilayer Structures.
Bijoy K Kuanr, Yuri Khivinitsev, Ian Harward, R. E. Camley and Z. Celinski.
IEEE Transactions on Magnetism, Vol. **43**, (2007), p.2645.
19. High Power Microwave effects on Iron based Microstrip Filter.
Bijoy K Kuanr, Yuri Khivinitsev, A. Hutchison, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, Vol. **43**, (2007), p.2648.
20. Nickel nanowires for Planer Microwave Circuits Applications and Characterization.
Ryan L. Marson, **Bijoy K. Kuanr**, Sanjay R. Mishra R. Camley and Z. Celinski
Journal of Vacuum Science and Technology B, Vol. **25**, Dec. (2007), p. 2619-23.
21. Ultrathin Magnetic Multilayer Films for low-field Microwave Notch Filters
Bijoy K. Kuanr, Alka V. Kuanr, T. Fal, R. E. Camley and Z. Celinski
Journal of Vacuum Science and Technology B, Vol. **25**, Dec. (2007), p. 2603-06.
22. Effects of Adjusting the Position of the Magnetic Layer in Magnetic Notch Filters
T. J. Fal, V. Veerakumar, **Bijoy K. Kuanr**, Yuri Khivinitsev, R. Camley & Z. Celinski
J. Appl. Physics, Vol. **102**, (2007), p. 063907.
2006
23. Magnetization Relaxation in Sputtered Thin Fe Films; An FMR study
Bijoy K. Kuanr, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, Vol. **42**, No.10 (2006), p. 2930.
24. Iron-based micro-strip band-stop filters at higher microwave frequency range; Design optimization using shape anisotropy.
Yuri Khivinitsev, **Bijoy K. Kuanr**, Ian Harward, R. E. Camley and Z. Celinski
J. Appl. Physics, Vol. **99**, (2006), p. 08P512.
2005
25. Narrowing of the frequency-linewidth in structured magnetic strips: experiment and theory.
Bijoy K. Kuanr, R.E. Camley and Z. J. Celinski
Applied Phy. Letters, **87**, (2005), pp.012502.
26. High-Frequency Magnetic Microstrip Local Bandpass Filter.
Bijoy K. Kuanr, D. L. Marvin, T. M. Christensen, R. E. Camley and Z. Celinski
Applied Phy. Letters, **87**, (2005), p.222506
27. Extrinsic contribution to Gilbert damping in Sputtered NiFe films by Ferromagnetic Resonance
Bijoy K. Kuanr, R. E. Camley and Z. Celinski
J. Magn. Mag. Materials, Vol.**286** (2005), pp 276-281.
28. Magnetically tunable Micro-strip Band-stop filter; Design optimization & Characterization
Bijoy K. Kuanr, R. E. Camley and Z. Celinski
J. Appl. Phys., Vol.**97** (2005), pp.10Q103.
29. High frequency signal processing using ferromagnetic metal.
Bijoy K. Kuanr, I. Harward, D.L. Fal, T. Camley, R.E. Mills R. E. Camley and Z. Celinski.
IEEE Transactions on Magnetism, Vol.**41** ,(2005), p.3538-43.
2004
30. Relaxation in Epitaxial Fe films by Ferromagnetic Resonance
Bijoy K. Kuanr, R. E. Camley, and Z. Celinski
J. Appl. Phys., Vol.**95** (2004), pp.6610.
31. Effect of Shape Anisotropy on Stop-band response of Fe and Permalloy based Tunable Microstrip Filters
Bijoy Kuanr, R. E. Camley and Z. Celinski
IEEE Transactions on Magnetism, Vol. **40**, July(2004), pp.2841.

2003

32. Tunable high-frequency band-stop magnetic filters.
Bijoy K. Kuanr, Z. Celinski, and R. E. Camley
Applied Phys. Letters, Vol. **83**, No.19, 10th Nov. (2003), pp.3969.
33. Iron and Permalloy based Magnetic Monolithic Tunable Microwave Devices
Bijoy K. Kuanr, L. Malkinski, R.E. Camley, Z. Celinski & Pavel Kabos
J. Appl. Phys. Vol.**93** (10), (2003), pp.8591.
34. Spinwaves in magnetic double layers with strong antiferromagnetic interlayer exchange coupling: theory and experiment
M. Buchmeier, **Bijoy K. Kuanr**, D. E. Buerghler, R. Schreiber and P. Gruenberg
Physical Review B **67**, (2003), pp. 184404
35. Interlayer Exchange Coupling of epitaxial Fe/Al/Fe trilayer films; Dynamic and Static measurements.
Bijoy K. Kuanr.
J. Appl. Phys. **93** (10), (2003), pp.7232.
36. Spin wave modes and line-broadening in strongly coupled epitaxial Fe/Al/Fe and Fe/Si/Fe trilayers by Brillouin Light Scattering.
Bijoy K. Kuanr, M. Buchmeier, R. R. Gareev, D. E. Buerghler, R. Schreiber and P. Gruenberg
J. Appl. Phys. **93**, (2003), pp.3427-37.
37. Exchange Bias of NiO/NiFe; Linewidth broadening and anomalous spin-wave damping
Bijoy K. Kuanr, R. E. Camley & Z. Celinski.
J. Appl. Phys. **93** (10), (2003), pp.7723.
38. Dynamic and Static Measurements on Epitaxial Fe/Si/Fe
Bijoy K. Kuanr, M. Buchmeier, D. E. Buerghler, and P. Gruenberg, Z. Celinski and R. E. Camley.
J. Vacuum Science & Technology, 21(4), (2003), pp.1157.

2002

39. Experiments on the relation between GMR and interface roughness and on the interlayer-exchange coupling across semiconductors.
P.Gruenberg, D.E.Buerghler, R. Gareev, D. Olligs, M. Buchmeier, M. Breidbach, **B. K. Kuanr**, R. Schreiber
J. Phys. D: Appl. Phys. **35** (2002), p.2403-2409.
40. Exchange coupling of MBE grown Fe/Al/Fe trilayers by dynamic techniques
Bijoy K. Kuanr, M. Buchmeier, D. E. Buerghler and P. Gruenberg.
J. Appl. Phys. **91**(2002), p.7209.

2001 & Before

41. Temperature dependent impedance anomaly, microwave GMR and exchange coupling in thin Ni/Cu multilayered films
Bijoy K. Kuanr, S. Gokhale, M. Vedpathak, A.V. Kuanr & G. Nimtz
J. of Phys. D: Applied Physics, **33**, (2000), p.34-40.
42. FMR studies on Fe/Cr/Fe trilayer ultra-thin films; Magneto-crystalline Anisotropy & Electromagnetic Impedance
Bijoy K. Kuanr & A. V. Kuanr
J. Magn. Mag. Materials, 165, (1997), p.275-279.
43. Effect of Rare-earth Gd³⁺ on Instability Threshold of YIG
Bijoy K. Kuanr.
J. Magn. Mag. Materials, vol.170, (1997), p.40-48.
44. Swept-frequency FMR on Fe/Cr/Fe trilayer ultra-thin films; Microwave Giant Magneto-Resistance
Bijoy K. Kuanr, A. V. Kuanr, P. Gruenberg & G. Nimtz
Phys. Lett. A, **221** (1996), p.245-252.
45. Angular dependence of FMR studies on Fe and Fe/Cr/Fe ultra-thin films
Bijoy K. Kuanr, P. Gruenberg & G. Nimtz
J. Magn. Mag. Materials, **156**, (1996), (MML'96).
46. Effect of Strong Relaxer Cobalt on the Parallel & Perpendicular Spin-wave Instability Threshold of LiTi Ferrites
Bijoy K. Kuanr.
J. Magn. Mag. Materials, vol.163, (1996), p.164-172.
47. Effect of Anisotropy & Volume of pore on Spin-wave Line-width.

- Bijoy K. Kuanr** & A. V. Kuanr.
Phys. Stat Sol. (a), vol.153 (1995), p.191-202.
48. Dispersion observed in Electrical properties of Titanium substituted Lithium Ferrites.
Bijoy K. Kuanr & G. P. Srivastava.
J. Appl. Phys. vol.75, (1994), p.6115.
49. Effect of Aluminium substitution on Electric, Magnetic & Microwave Properties of LiTi Ferrites
 N. Saxena, **Bijoy K. Kuanr** , Z.H. Zaidi & G. P. Srivastava.
Phys. Stat Sol. (a), vol.127 (1991), p.231-242.
50. Instability threshold in polycrystalline cobalt doped LiTi Ferrites
Bijoy K. Kuanr , P.K. Singh, Pran Kishan & G. P. Srivastava.
Crystal Properties & Preparation (Switzerland), vol.27-30, (1989), p.1005-1008.
51. Dispersion in electrical properties of titanium substituted Lithium Ferrites.
Bijoy K. Kuanr, P. Kishan & G. P. Srivastava.
Crystal Properties & Preparation (Switzerland), vol.27-30, (1989), p.227-231.
52. Dielectric & Magnetic Properties of polycrystalline Cobalt substituted LiTi ferrites
B. K. Kuanr, P.K.Singh, P. Kishan, N. Kumar, S.L.N. Rao, PK. Singh & G. P.Srivastava.
Appl. Phys. vol.63 (1988), p.3780-3783.
53. Voltage dependence of dc Resistance in polycrystalline ferrimagnetic materials
Bijoy K. Kuanr, P. K. Singh & Pran Kishan
J. Appl. Phys. vol.61 (1987), p.4379-4381.

LIST OF PUBLICATIONS (INTERNATIONAL CONFERENCES):

54. Magnetically tuned High Frequency Phase Shifter using Fe as active element.
Bijoy K. Kuanr, V. Venugopal, Y. Khivintsev, R.E. Camley and Z. Celinski.
 55th Magnetism and Magnetic Materials Conference (MMM-2010), ATLANTA, GEORGIA, 2010
55. Tunable local band pass filter using permalloy square antidote arrays.
 V. Venugopal, **Bijoy K. Kuanr**, L.M. Malkinski, M.Yu, R.E. Camley and Z. Celinski
 55th Magnetism and Magnetic Materials Conference (MMM-2010), ATLANTA, GEORGIA, 2010
56. High-Frequency Signal Processing using Magnetic Layered Structures.
 R. E. Camley, Z. Celinski, T. Fal, A. V. Glushchenko, A. J. Hutchison, Y. Khivintsev, **Bijoy K. Kuanr**,
 I. R. Harward, V. Veerakumar, V. V. Zagorodnii.
43th Annual GOMAC-Tech Conference, MARCH 16-19, 2009 - Orlando, FL, U. S. A.
57. High-frequency characterization of Permalloy nano-sized stripes using Network Analyzer
 Ferromagnetic Resonance and Brillouin Light scattering.
Bijoy K. Kuanr, Leszek M. Malkinski, Minghui Yu, Donald Scherer, R. Camley and Z. Celinski
2nd International Meetings on Development in materials, Processes and Applications (MPA'08), 6-
 8 Jan (2008), Cambridge University, U. K.
58. Microstrip phase shifter using Fe as the active element.
 Andrew Hutchison , Yuri Khivintsev , **Bijoy Kuanr** , Ian Harward , Zbigniew Celinski, Robert
 Camley
2007 APS Meeting, March 5–9, 2007; Denver, Colorado, USA
59. Nonlinear effects in iron based microstrip structures.
 Z. Celinski, **Bijoy K. Kuanr**, Yuri V. Khivintsev, Andrew Hutchison & R. E. Camley.
2007 APS Meeting, March 5–9, 2007; Denver, Colorado, USA.
60. Position dependence of thin layer notch filter waveguides.
 Tim Fal , **Bijoy K. Kuanr** , Robert E. Camley , Zbigniew Celinski
2007 APS Meeting, March 5–9, 2007; Denver, Colorado, USA.
61. Narrow-band microstrip small signal suppressor based on Permalloy film.
 Yuri V. Khivintsev, **Bijoy K. Kuanr**, Andrew Hutchison, Robert E. Camley, and Zbigniew J.
 Celinski
5th International Work shop on High Frequency Micro-magnetic Devices and Materials
 (MMDM5), January 12th , (2007), Johns Hopkins University, MD, USA.
62. On-Wafer Microwave Devices Based on Ferromagnetic Metals.
 Zbigniew Celinski, Y. Khivintsev and **Bijoy Kuanr**.
25th Army Science Conference, Nov 27-30, (2006), Orlando, Florida, USA.
63. Iron-based Microwave band-stop filters operating above 10 GHz.
Bijoy K. Kuanr, I.R. Harward, Y.V. Khivintsev, R.E. Camley , and Z. Celinski.
4th International Work shop on High Frequency Micro-magnetic Devices and Materials
 (MMDM4), May 8th, 2006, Handlery Hotel & Resort, San Diego, USA.
64. Influence of layering of NiO/NiFe on exchange bias
B. K. Kuanr, & A. V. Kuanr

- INTERMAG Asia 2005:** Digest of the IEEE International Magnetism Conference (IEEE Cat. No.05CH37655), 2005, p 1631-2.
65. On-wafer band-stop and band-pass microwave filters based on ferromagnetic resonance
B. K. Kuanr, I. R. Harward, R. E. Camley & Z. Celinski
INTERMAG Asia 2005: Digest of the IEEE International Magnetism Conference (IEEE Cat. No.05CH37655), 2005, p 547-8.
66. Magnetization relaxation in sputtered thin Fe films: evidence of spin-pumping effect
B. K. Kuanr, A. V. Kuanr, R. E. Camley & Z. Celinski
INTERMAG Asia 2005: Digest of the IEEE International Magnetism Conference (IEEE Cat. No.05CH37655), 2005, p 73-4
67. Twisted magnetization state in thin Fe films due to strong interlayer coupling
M. Buchmeier; D. Buegler; **B. K. Kuanr**; R. Gareev; P. Gruenberg
MMM-INTERMAG Proceedings, (BG-09), California, USA, Jan. 5-9, (2004).
68. Magnetization relaxation in epitaxial Fe films by Ferromagnetic Resonance techniques
Bijoy K. Kuanr, Z. Celinski, R. E. Camley and P. Kabos
INTERMAG, Boston, Massachusetts - March 30 -April 3, (2003)
69. Intrinsic and Extrinsic contribution to Gilbert damping in epitaxial Fe films; FMR study
Bijoy K. Kuanr, R. E. Camley & Z. Celinski
47th MMM Proceedings, (HS-1), Tampa, Florida, Nov.11-15 (2002).
70. Determination of Damping Parameter by Impulse and CW Microwave Techniques.
P. Kabos, R. Lopusnik, J. Nibarger, A. Kos, T. Silva, **B. K. Kuanr**, L. Malkinski & Z. Celinski.
47th MMM Proceedings, (BH-13), Tampa, Florida, Nov.11-15 (2002).
71. Studies of strongly coupled epitaxial Fe(001)/Al/Fe trilayers by Brillouin light scattering
M. Buchmeier, **Bijoy K. Kuanr**, R. R. Gareev, D. E. Buegler and P. Gruenberg
17th ICMFS - International Colloquium of Magnetic films and surfaces, Kyoto Research Park (KRP), Kyoto, Japan March 5-8, (2002).
72. Influence of layering of NiO/Py on Exchange bias
Bijoy K. Kuanr, J. Wingbermuehl, D. Buegler and P. Gruenberg.
46th MMM Conference, Seattle, Washington, Nov. 12-16, (2001), **BQ-08**
73. Magnetoelektronik: vom Kompass zum Datenspeicher
P. Gruenberg, D. Buegler, R. Gareev, **Bijoy K. Kuanr**
Deutsche Physikalische Gesellschaft e.v. (DPG), Hamburg, Germany, (2001).
74. Broadening of frequency linewidth in exchange-biased and exchange-coupled system observed by FMR and BLS
Bijoy K. Kuanr, M. Buchmeier, D. E. Buegler and P. Gruenberg
MML'01 (Magnetic Multilayer Conference), Aachen, Germany, Session IECP, (2001).
75. Microwave Giant-Magneto-Resistance and Inter-layer exchange coupling in Ni/Cu Multilayer films on Si(111) (abstract).
A.V. Kuanr, **B. K. Kuanr**
E-MRS Spring Meeting-2000, Symposium F,30 May – 2 June (2000), Strasbourg, France.
76. Microwave Colossal Magneto-Resistance of La-Ca-MnO films (abstract)
A. V. Kuanr & **Bijoy K. Kuanr**
E-MRS Spring Meeting-2000, Symposium F;June (2000), Strasbourg, France.
77. Influence of anisotropy on FMR frequency of thin Permalloy and epitaxial Fe Films
Bijoy K. Kuanr, J. Wingbermuehle & P. Gruenberg,
Symposium on Spin-Electronics, July 3-6, (2000), Halle, Germany.
78. Influence of anisotropy on FMR frequency of polycrystalline pinned & unpinned thin Permalloy & epitaxial Fe films
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