

INFORMAȚII PERSONALE

Dascălu Traian



Locul de muncă: Institutul National de Cercetare si Dezvoltare pentru Fizica Laserilor, Plasmei si Radiației

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Sexul: Masculin | **Data nașterii:** 05/12/1956 | **Naționalitatea:** Romana

EXPERIENȚA PROFESIONALĂ

[Descrieți separat fiecare loc de muncă. Începeți cu cel mai recent.]

2005- prezent

Cercetator Stiintific gradul I

Institutul National de Cercetare si Dezvoltare pentru fizica Laserilor, Plasmei si Radiației
Laboratorul de Electronica Cuantica a Solidului

Str. Atomistilor, nr. 409, Măgurele, jud. Ilfov, www.infpr.ro

- Fizica radiatiei THz, Fizica Laserilor, Laseri cu corp solid pompați cu diode, aplicatii ale laserilor, aplicatii in medicina, biologie si securitate a radiatiei THz, Sef de grup pe subiecte legate de fizica laserilor, fizica radiatiei THz, aplicatii ale laserilor.

Tipul sau sectorul de activitate: Cercetare si Dezvoltare

05/2015 – prezent

Director General al Institutul National de Cercetare si Dezvoltare pentru fizica Laserilor, Plasmei si Radiației

Institutul National de Cercetare si Dezvoltare pentru fizica Laserilor, Plasmei si Radiației
Laboratorul de Electronica Cuantica a Solidului

Str. Atomistilor, nr. 409, Măgurele, jud. Ilfov, www.infpr.ro

- Administrarea institutului de cercetare, Cercetare pe :Fizica radiatiei THz, Fizica Laserilor, Laseri cu corp solid pompați cu diode, aplicatii ale laserilor, aplicatii in medicina, biologie si securitate a radiatiei THz, Sef de grup pe subiecte legate de fizica laserilor, fizica radiatiei THz, aplicatii ale laserilor.

Tipul sau sectorul de activitate : Administratie, Cercetare si Dezvoltare

06/2010 - prezent

Conducator de doctorat si Profesor Asociat la Facultatea de Fizica, Universitatea Bucuresti

University of Bucharest, Faculty of Physics, Strada Atomistilor Nr.405, CP MG - 11, RO – 077125, Platforma de Fizică Măgurele

- Predarea si ghidarea doctoranzilor in scopul realizarii tezelor de doctorat, Cercetare pe :Fizica radiatiei THz, Fizica Laserilor, Laseri cu corp solid pompați cu diode, aplicatii ale laserilor, aplicatii in medicina, biologie si securitate a radiatiei THz,

Tipul sau sectorul de activitate : Academic, Cercetare si Dezvoltare

12/2007 - 04/2010

Sef al laboratorului de Electronica Cuantica a Solidului

Institutul National de Cercetare si Dezvoltare pentru fizica Laserilor, Plasmei si Radiației
Laboratorul de Electronica Cuantica a Solidului

Str. Atomistilor, nr. 409, Măgurele, jud. Ilfov, www.inflpr.ro

- Administrarea laboratorului de cercetare; Cercetare pe :Fizica radiatiei THz, Fizica Laserilor, Laseri cu corp solid pompati cu diode, aplicatii ale laserilor, aplicatii in medicina, biologie si securitate a radiatiei THz,

Tipul sau sectorul de activitate : Cercetare si Dezvoltare

1985 - 1996 Cercetator Stiintific

Institutul National de Cercetare si Dezvoltare pentru fizica Laserilor, Plasmei si Radiației
Laboratorul de Electronica Cuantica a Solidului

Str. Atomistilor, nr. 409, Măgurele, jud. Ilfov, www.inflpr.ro

- Fizica Laserilor, Proiectarea si fabricarea componentelor optice,Laseri cu corp solid pompati cu lampi,

Tipul sau sectorul de activitate : Cercetare si Dezvoltare

2001 - 2005 Cercetator Stiintific Invitat

Fukui Association of Industrial Technology, Fukui, Japan

- Fizica Laserilor, Proiectarea si fabricarea laserilor de mare putere de tip disc subtire Yb:YAG pompati cu diode,modelari numerice, automatizare, proiectarea si fabricarea echipamentului cristal-heatsink, proiectarea si realizarea laserilor cu pulsuri scurte,

Tipul sau sectorul de activitate : Dezvoltare tehnologica, cercetare si proiectare

1998 - 2000 Cercetator Stiintific Invitat

Optical Research Center, Leon, Mexico

- Fizica Laserilor, Aplicatii ale laserilor in medicina si industrie, Predare cursuri pentru doctoranzi

Tipul sau sectorul de activitate : Cercetare stiintifica

1995 Bursa Postdoctorala, sub conducerea prof. Dr. Horst Weber

Optical & Solid-State Laser Institute, Technical University Berlin, Berlin, Germany

- Fizica Laserilor, Laseri cu corp solid pompati cu lampi flash, laseri cu solid comutati pasiv

Tipul sau sectorul de activitate : Cercetare stiintifica

1984-1985 Fizician

Institutul National de Cercetare Electro-Tehnic, Bucuresti, Romania

- Calificarea nucleara a componentelor electro-tehnice pentru centrale nucleare

Tipul sau sectorul de activitate : Cercetare stiintifica

1982-1984 Fizician

Institutul National de Cercetare in domeniul Reactoarelor Nucleare, Pitesti, Romania

- Studiul combustibililor nucleari inainte si dupa combustia nucleara

Tipul sau sectorul de activitate : Cercetare stiintifica

EDUCAȚIE ȘI FORMARE

1990-1993 Doctorat in Fizica

Institutul de Fizica Atomica, Bucuresti, Romania

- Optica, Spectroscopie si Laseri

1977-1982 Diploma in Inginerie Fizicii

Facultatea de Fizica, Universitatea Bucuresti, Romania

- Matematici superioare, Fizica Nucleara, Optica, Spectroscopie si Laseri

COMPETENTE PERSONALE

Limba(i) maternă(e) Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	C2	C2	C2	C2	C2
Spaniola	C2	C2	C2	C2	C2
Japoneza	A2	A2	A2	A2	A2

Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat

[Cadru european comun de referință pentru limbi străine](#)

Competențe de comunicare

- Abilitatea de a lucra in echipe de cercetare, castigata prin multiple stagii de lucru in strainatate
- Buna capacitate de adaptare in diferite conditii si medii culturale, dezvoltata in timpul perioadelor de studiu si cercetare in strainatate

Competențe organizatorice/manageriale

- Capacitatea de a administra un institut
- Sef de grup al unei echipe implicate in proiecte de cercetare nationale si internationale
- Conducator de proiecte de cercetare si membru in multiple proiecte de cercetare nationale si internationale
- Membru al Consiliului National pentru Cercetare Stiintifica CNCS, Romania
- Conducator de proiect de cercetare pentru companie internationala
- Coordonatoral domeniului optica in elaborarea studiului strategic ESFRO comandat de ANCS

Competențe dobândite la locul de muncă

- Domenii de cercetare recente:
 - Spectroscopia THz in domeniul temporal pe tesuturi biologice
 - Noi surse THz
 - Spectroscopia THz a biomoleculelor mari
 - Laseri de mare putere Yb:YAG pompați la margine (edge pumping)
 - Analiza, proiectarea si fabricarea laserilor Yb:YAG
 - Tehnologia de lipire: studii si aplicatii
 - Efectele termice asupra mediului activ laser Yb:YAG
 - Generarea de pulsuri laser foarte scurte
 - Dezvoltarea de noi laseri cu medii active solide
 - Analiza extinsa a rezonatorului laser corelata cu experimente
 - Corectarea fasciculului laser prin folosirea oglinzilor adecvate
 - Laseri Nd:YAG cu energie mare comutati pasiv si activ
 - Tehnici avansate ale laserilor cu solid pentru aplicatii industriale
 - Marcarea si trasarea cu laser
 - Gaurirea cu laser a materialelor dure si fragile
 - Indepartarea controlabila a filmelor subtiri cu laseri comutati pasiv
 - Interactia fasciculului laser cu tesuturi biologice moi si tari
 - Fragmentarea pietrelor biliare cu laser la lungimea de unde de 2.09μm
 - Contractia fibrelor de colagen din comee sub iradierea cu pulsuri laser
 - Echipament de procesare laser multi-axial
 - Proiectare si fabricare

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent	Utilizator independent
Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat				
Competențele digitale - Grilă de auto-evaluare				
Scrieți denumirea certificatului.				

- o bună stăpânire a suitei de programe de birou (procesor de text, calcul tabelar, software pentru prezentări)
- bune cunoștințe de editare foto folosind , Corel Draw, Adobe, Photoshop
- Procesare și analiza de date prin utilizarea programelor: Wolfram Mathematica, Optica, Origin, Igor si a altor programe dedicate
- Bune cunoștințe de realizare de baze de date cu programul FileMaker (crearea de baze de date pentru elementele optice si mecanice din laborator)

Alte competențe

- Reviewer:
 - Optics Letters, Optics Express
 - Optics Communications, Opt. & Laser Technology, Optical Materials
- Activitate academica:
 - Conducator de doctorat, Facultatea de Fizica, Universitatea Bucuresti, In momentul de fata, am sub indrumare 6 studenti
 - Predare cursuri doctorat la Facultatea de Fizica, Universitatea Bucuresti
 - Supervisor of more than 20 students for diploma degree preparation, Faculty of Physics, University of Bucharest;
 - Predare la Optical Research Center, Leon, Mexico, 6 semestre, nivel doctoral:
 1. Industrial and Medical Laser Applications
 2. Laser Interaction with Biological Tissue
- Membru:
 - Optical Society of America (OSA)

Permis de conducere

Categoria B

ANEXE

Lista articolelor publicate, patente si carti

Anexe

Lista Publicatiilor

1. Lucrari

88. A. Birtas, N. Boicea, F. Draghici, R. Chiriac, G. Croitoru, M. Dinca, T. Dascalu and N. Pavel, "On the assessment of performance and emissions characteristics of a SI engine provided with a laser ignition system," IOP Conf. Ser.: Mater. Sci. Eng. 252, art. 012071 (2017); doi:10.1088/1757-899X/252/1/012071
87. O. V. Grigore, G. Croitoru, T. Dascalu, N. Pavel, "Diode-laser edge-pumped Nd:YAG/YAG lensshaped composite laser," Opt. & Laser Techn. 94, 86-89 (2017).
86. T. Dascalu, G. Croitoru, O. Grigore, N. Pavel, "High-peak power passively Q-switched Nd:YAG/Cr4+:YAG composite laser with multiple-beam output," Photonics Research, 4(6), 267-271 (2016).
85. C.-A. Stanciu, T. Dascalu, G. Stanciu, N. Pavel, "Transparent Nd doped YAG ceramics," Journal of Physics: Conference Series 741(1), art. 012074 (2016); 3rd International School and Conference on Optoelectronics, Photonics, Engineering and Nanostructures (Saint Petersburg OPEN 2016), 28-30 March 2016, St Petersburg, Russia; doi:10.1088/1742-6596/741/1/012074.
84. O. Grigore, O. Calborean, G. Cojocaru, R. Ungureanu, M. Mernea, M.P. Dinca, S. Avram, D.F. Mihailescu, and **T. Dascalu**, "High-intensity THz pulses application to protein conformational changes," Rom. Rep. Physics 67(4), 1251-1260 (2015)
83. Nicolaie Pavel, **Traian Dascalu**, Gabriela Salamu, Mihai Dinca, Niculae Boicea, and Adrian Birtas, Ignition of an automobile engine by high-peak power Nd:YAG/Cr4+:YAG laser-spark devices, OPTICS EXPRESS 23, 33028, (2015) DOI:10.1364/OE.23.033028
82. [Mernea M](#), [Ionescu A.](#), [Vasile I.](#), [Nica C](#), [Stoian G](#), **Dascalu T**, [Mihailescu, DE](#), „In vitro human serum albumin glycation monitored by Terahertz spectroscopy”, *OPTICAL AND QUANTUM ELECTRONICS* **47**, 4, (2015) 961-973 DOI: 10.1007/s11082-015-0129
81. R G Ungureanu, O V Grigore, M P Dinca, G V Cojocaru, D Ursescu and **T Dascalu**, "Multiple THz pulse generation with variable energy ratio and delay", 2015 *Laser Phys. Lett.* **12** 045301(2015), . doi:10.1088/1612-2011/12/4/045301
80. C.A. Brandus, L. Gheorghe, **T. Dascalu**, "Efficient laser operation at 1.06 μm in co-doped Lu^{3+} , Nd^{3+} : $\text{GdCa}_4\text{O}(\text{BO}_3)_3$ single crystal," Opt. Mat. (2015). <http://dx.doi.org/10.1016/j.optmat.2015.01.030>
79. **T. Dascalu**, G. Salamu, O. Sandu, M. Dinca, and N. Pavel, "Scaling and passively Q-switch operation of a Nd:YAG laser pumped laterally through a YAG prism," Opt. & Laser Techn. 67, 164- 168 (2015).
78. M. Mernea, O. Calborean, O. Grigore, **T. Dascalu**, and D. F. Mihailescu, "Validation of protein structural models using THz spectroscopy: a promising approach to solve three-dimensional structures," Opt. Quantum. Electron 46 (4), 505-514 (2014).
77. G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, **T. Dascalu**, and N. Pavel, "Laser emission from diode-pumped Nd:YAG cladding waveguides obtained by direct writing with a femtosecond-laser beam," Proc. SPIE 9135, Laser Sources and Applications II, 91351F; doi:10.1117/12.2052250; <http://dx.doi.org/10.1117/12.2052250>

76. L. Sirbu, L. Ghimpu, M. Danila, R. Muller, A. Matei, F. Comanescu, A. Ionescu, O. Grigore, **T. Dascalu**, and A. Sarua, "Porous and RF sputtering InP for portable THz-TDS in pharmaceutical and medical applications," IEEE Proceeding of Semiconductor Conference vol. 1, pp. 69-72 (2013). DOI: 10.1109/SMICND.2013.6688092
75. C. A. Brandus, L. Gheorghe, and **T. Dascalu**, "Infrared laser emission in a compact CW and quasiCW diode pumped Nd³⁺:GdLuCOB laser," Proc. IEEE, Advanced Optoelectronics and Lasers (CAOL), 102, ISSN: 2160-1518, ISBN: 978-1-4799-0016-9, DOI: 10.1109/CAOL.2013.6657543.
74. G. Salamu, F. Voicu, N. Pavel, **T. Dascalu**, F. Jipa, and M. Zamfirescu, "Laser emission in diode pumped Nd:YAG single-crystal waveguides realized by direct femtosecond-laser writing technique," Rom. Reports in Physics 65 (3), 943-953 (2013).
73. N. Pavel, G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, and **T. Dascalu**, "Efficient laser emission in diode-pumped Nd:YAG buried waveguides realized by direct femtosecond-laser writing," Laser Physics Letters 10 (9), 095802 (2013).
72. G. Salamu, A. Ionescu, C. Brandus, O. Grigore, N. Pavel and **T. Dascalu**, "Generation of high-peak power 532-nm green pulses from composite, all-ceramics, passively Q-switched Nd:YAG/Cr⁴⁺:YAG laser," Proc. SPIE 8882, doi:10.1117/12.2032267; <http://dx.doi.org/10.1117/12.2032267>
71. **T. Dascalu**, G. Salamu, O. Sandu, F. Voicu, and N. Pavel, "Novel laterally pumped by prism laser configuration for compact solid-state lasers," Laser Physics Letters 10 (5), 05580 (2013).
70. **T. Dascalu**, G. Salamu, O. Sandu, F. Voicu, and N. Pavel, Novel 'prism-by lateral-pumped' laser configuration for compact solid-state lasers, Laser Physics Letters 2013 (accepted for publications)
69. G. Salamu, E. Osiac, C. Dascalu, N. Pavel, and **T. Dascalu**, "Simultaneous Dual-Wavelength Operation at 1.06 and 1.34 μ m in Nd-vanadate Laser Crystals," Laser Physics 22 (5), 866-871(2012).
68. O. Sandu, G. Salamu, N. Pavel, **T. Dascalu**, D. Chuchumishev, A. Gaydardzhiev, and I. Buchvarov, "High-peak power, passively Q-switched, composite, all-poly-crystalline ceramics Nd:YAG/Cr⁴⁺:YAG lasers," Quantum Electronics 42 (3), 211-215 (2012).
67. G. Salamu, A. Ionescu, C. A. Brandus, O. Sandu, N. Pavel, and **T. Dascalu**, "High-Peak Power, Passively Q-switched, Composite, All-Poly-Crystalline Ceramics Nd:YAG/Cr⁴⁺:YAG Laser and Generation of 532-nm Green Light," Laser Physics 22 (1), 68-73 (2012).
66. M. Mernea, O. Calborean, L. Petrescu, D. Zatreanu, O. Sandu, **T. Dascalu**, and D. Mihailescu, "THz spectroscopy and molecular modeling of bovine serum albumin under various hydration conditions," Proceedings of SPIE 8306, "Photonics, Devices and Systems V", 83060N (2011).
65. M. Mernea, O. Calborean, D. Zatreanu, O. Sandu, **T. Dascalu**, and D. Mihailescu, "Macromolecular crowding effects studied by THz spectroscopy and molecular modeling," European Biophysics Journal with Biophysics Letters, 40 (Supplement: 1), 112-113 (August 2011).
64. G. Salamu, O. Sandu, F. Voicu, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, and **T. Dascalu**, "Study of Flame Development in 12% Methane-Air Mixture Ignited by Laser," Optoelectronics and Advanced Materials - Rapid Communications 5 (11), 1166-1169 (2011).
63. M. Mernea, O. Calborean, L. Petrescu, M. P. Dinca, A. Leca, D. Apostol, **T. Dascalu**, and D. Mihailescu, "The flexibility of hydrated bovine serum albumin investigated by THz spectroscopy and molecular modeling," Proceedings SPIE 7469, Micro- to Nano-Photonics II - 74690N (2010).
62. M. Mernea, O. Calborean, M. P. Dinca, A. Leca, D. Apostol, **T. Dascalu**, and D. Mihailescu, "The simulation of bovine serum albumin vibration spectrum in THz domain," Journal of Optoelectronics and Advanced Materials (JOAM), Topical Issue: Micro - to Nano-Photonics 12(1), 135-140 (2010).

61. M. P. Dinca, A. Leca, D. Apostol, M. Mernea, O. Calborean, D. Mihailescu, and **T. Dascalu**, "Transmission THz time domain system for biomolecules spectroscopy," Journal of Optoelectronics and Advanced Materials (JOAM), Topical Issue: Micro - to Nano-Photonics **12**(1), 110-114 (2010).
60. N. Pavel, **T. Dascalu**, G. Salamu, O. Sandu, A. Leca, and V. Lupei, "Q-switched Nd lasers pumped directly into the 4F3/2 emitting level," Opt. Commun. **282** (24), 4749-4754 (2009).
59. **T. Dascalu** and N. Pavel, "High-temperature operation of a diode-pumped passively Q-switched Nd:YAG/Cr4+:YAG laser," Laser Physics **19** (11), 1-6 (2009).
58. **T. Dascalu**, O. Sandu, N. Vasile, A. Leca, N. Pavel, and T. Taira, "End-Pumped Yb:KGW Laser Mode-Locked by Saturable Absorber Mirror," J. of Optoelectron. & Adv. Mat. (JOAM) - Symposia, Vol. **1**, No. 4, 658-661 (2009).
57. N. Pavel, N. Vasile, A. Leca, and **T. Dascalu**, "Diode-Pumped Nd-based Lasers for Generation of Visible Radiations," J. of Optoelectron. & Adv. Mat. (JOAM) - Symposia, Vol. **1**, No. 4, 673-676 (2009).
56. N. Vasile, A. Leca, N. Pavel, and **T. Dascalu**, "A Diode-Pumped Acousto-optic Q-switched Nd:YAG Laser for Marking Applications," J. of Optoelectron. & Adv. Mat. (JOAM) - Symposia, Vol. **1**, No. 4, 677-680 (2009).
55. N. Pavel, **T. Dascalu**, N. Vasile, and V. Lupei, "Efficient 1.34- μ m laser emission of Nd-doped vanadates under in-band pumping with diode lasers," Laser Phys. Lett. **6** (1), 38-43 (2009).
54. **T. Dascalu**, "Edge-pump high power microchip Yb:YAG laser," Rom. Reports in Physics **60** (4), 977-994 (2008).
53. **T. Dascalu**, "High Power Microchip Solid State Laser," Proc. SPIE, vol. **7007**, 700706 (2008).
52. C. Petre, N. Vasile, N. Pavel, and **T. Dascalu**, "Continuous-wave diode end-pumped Nd:YAG and Nd:GdVO4 lasers passively Q-switched by Cr4+:YAG. Comparative study for industrial applications," Proc. SPIE, vol. **7007**, 70070P (2008).
51. **T. Dascalu** and T. Taira "Mode locking operation of Yb:YAG/YAG laser: non linear mirror technique," Proc. SPIE vol. **6606**, 60605 (2007).
50. C. Petre and **T. Dascalu**, "Passively Q-switched diode pumped CW Nd:GdVO4-Cr4+:YAG and Nd:YAG-Cr4+:YAG laser," Proc SPIE vol. **6606**, A6060 (2007).
49. **T. Dascalu** and C. Dascalu "High-power lens-shape diode edge-pumped composite laser," Proc. SPIE vol. **6785**, B7850 (2007).
48. **T. Dascalu** and T. Taira, "Non linear mirror mode locking operation of edge pumped Yb:YAG/YAG laser," Proc. SPIE vol. **6785**, 78506 (2007).
47. **T. Dascalu** and C. Dascalu "Corneal Collagen Fibrile Contraction under 2.1 μ m Holmium Laser Irradiation," J. Optoelectronics and Advanced Materials **8** (4) 1552 (2006).
46. **T. Dascalu** and T. Taira "Highly efficient pumping configuration for microchip solid-state laser," Optics Express **14** (2), 670-677 (2006).
45. M. Tsunekane, **T. Dascalu**, and T. Taira, "High-power operation of diode edge-pumped, microchip Yb:YAG laser composed with YAG ceramic pump wave-guide," OSA TOPS on Advanced Solid-State Photonics, vol. **98**, 603-607 (2005).
44. T. Taira, M. Tsunekane, and **T. Dascalu**, "Diode edge-pumped microchip composite Yb:YAG laser," The Review of Laser Engineering **33** (4), 228-235 (2005).
43. **T. Dascalu**, N. Pavel and T. Taira, "Diode Radial Pumped Composite Microchip Yb:YAG Laser: Output Performances and Thermal Effects," Proceedings SPIE **5581**, 128-134 (2004).
42. N. Pavel, J. Saikawa, I. Shoji, **T. Dascalu**, V. Lupei, and T. Taira, "All-solid-state diode end-pumped Nd:YAG laser passively Q-switched by Cr4+:YAG saturable absorber," Proc. SPIE **5581**, 170-179 (2004).

41. **T. Dascalu**, N. Pavel, M. Tsunekane, and T. Taira, "Continuous-wave 90-W output power diode edge-pumped microchip composite Yb:YAG laser," Trends in Optics and Photonics Series, **94**, 245-250 (2004).
40. **T. Dascalu**, N. Pavel, and T. Taira, "90 W continuous-wave diode edge-pumped microchip composite Yb:Y3Al5O12 laser," Appl. Phys. Lett. **83**, (20), 4086-4088 (2003).
39. **T. Dascalu**, T. Taira, and N. Pavel, "Diode edge-pumped high power microchip composite Yb:YAG laser," OSA Trends in Optics and Photonics. **83**, 231-234 (2003).
38. **T. Dascalu**, T. Taira, and N. Pavel, "100-W quasi-continuously-wave diode radial pumped microchip composite Yb:YAG laser," Opt. Lett. **27** (20), 1791-1793 (2002).
37. **T. Dascalu**, T. Taira, and N. Pavel, "Diode edge-pumped microchip composite Yb:YAG laser," Jap. J. Appl. Phys. (Express Letters) **41** (part 2, no. 6A), L606-L608 (2002).
36. **T. Dascalu**, N. Pavel, T. Taira, "Quasi-CW Diode Radial Pumped Composite Yb:YAG Microchip Laser," Proc. of LASERS 2001, 49-55 (2002).
35. **T. Dascalu**, G. Cruz de Leon, M. Consolacion Martinez Saldana, and C.J. Ventura Juarez, "Study of the laser interaction with corneal collagen fibril," Proc. of LASERS 2000, 589-595 (2001).
34. **T. Dascalu**, C. Dascalu, and N. Pavel, "Passively Q-switched, frequency doubled, Nd:YAG laser with Cr⁴⁺:YAG saturable absorber," Proc. of LASERS 2000, 46-52 (2001).
33. **T. Dascalu**, C. Dascalu, and N. Pavel, "Nd:YAG laser continuous wave pumped, Q-switched by hybrid "passive-active" methods," Proc. SPIE 4430, 52-61 (2001).
32. **T. Dascalu**, Sofia Acosta Ortiz, M. Ortiz-Morales, and I. Compean, "Removal of the indigo color by laser beam-denim interaction," Proc. SPIE 4430, 290-296 (2001).
31. **T. Dascalu**, G. Cruz de Leon, M. Consolacion Martinez Saldana, and C.J. Ventura Juarez, "A new method to measure the contraction speed of corneal collagen under laser irradiation," Proc. SPIE 4430, 654-660 (2001).
30. **T. Dascalu**, Sofia E Acosta-Ortiz, Martin Ortiz-Morales, and Isac Compean, "Removal of the indigo color by laser beam-denim interaction," Optics and Lasers in Engineering **34** (3), 179-189 (2000).
29. **T. Dascalu**, N. Pavel, and S. Acosta-Ortiz, "Nd:YAG laser continuous wave pumped, Q-switched by hybrid 'passive-active' methods," Mexican Physics Review **46** (4) 320-328 (2000).
28. N. Pavel, **T. Dascalu**, T. Taira, "High-efficiency Nd:YAG laser designed by pump-beam M2 factor method," Proc. of LASERS '98, 1142-1149 (1999).
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